



SERVICE MANUAL MODEL: LM-M340A/D/X,LMS-M340, LM-M342A/X,LMS-M342

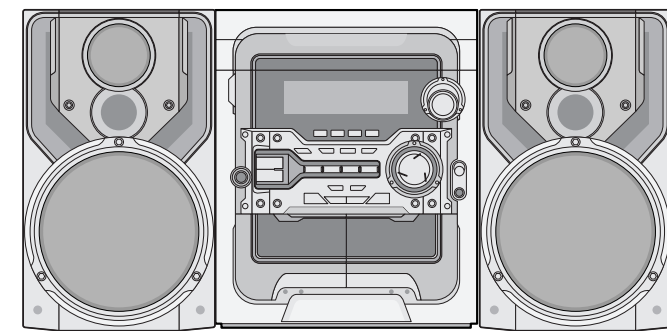


# MINI HI-FI SYSTEM

## SERVICE MANUAL

### CAUTION

BEFORE SERVICING THE UNIT, READ THE "SAFETY PRECAUTIONS" IN THIS MANUAL.



MODEL: LM-M340A/D/X,LMS-M340  
LM-M342A/X,LMS-M342

LG Electronics Inc.

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# SECTION 1. GENERAL

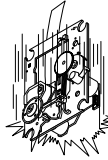
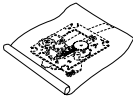
## ❑ SERVICING PRECAUTIONS

### NOTES REGARDING HANDLING OF THE PICK-UP

#### 1. Notes for transport and storage

- 1) The pick-up should always be left in its conductive bag until immediately prior to use.
- 2) The pick-up should never be subjected to external pressure or impact.

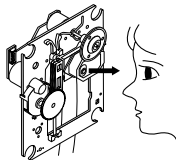
Storage in conductive bag



Drop impact

#### 2. Repair notes

- 1) The pick-up incorporates a strong magnet, and so should never be brought close to magnetic materials.
- 2) The pick-up should always be handled correctly and carefully, taking care to avoid external pressure and impact. If it is subjected to strong pressure or impact, the result may be an operational malfunction and/or damage to the printed-circuit board.
- 3) Each and every pick-up is already individually adjusted to a high degree of precision, and for that reason the adjustment point and installation screws should absolutely never be touched.
- 4) Laser beams may damage the eyes!  
Absolutely never permit laser beams to enter the eyes!  
Also NEVER switch ON the power to the laser output part (lens, etc.) of the pick-up if it is damaged.

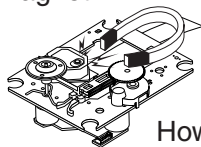


NEVER look directly at the laser beam, and don't let contact fingers or other exposed skin.

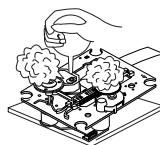
#### 5) Cleaning the lens surface

If there is dust on the lens surface, the dust should be cleaned away by using an air bush (such as used for camera lens). The lens is held by a delicate spring. When cleaning the lens surface, therefore, a cotton swab should be used, taking care not to distort this.

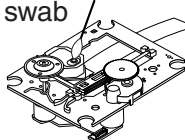
Magnet



How to hold the pick-up

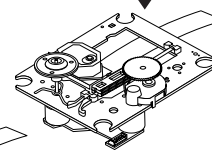


Cotton swab



Conductive Sheet

Pressure X Pressure



#### 6) Never attempt to disassemble the pick-up.

Spring by excess pressure. If the lens is extremely dirty, apply isopropyl alcohol to the cotton swab. (Do not use any other liquid cleaners, because they will damage the lens.) Take care not to use too much of this alcohol on the swab, and do not allow the alcohol to get inside the pick-up.

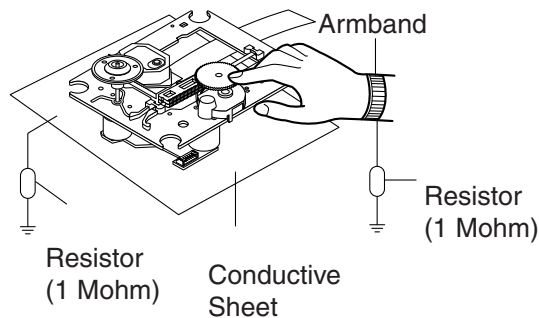
# NOTES REGARDING COMPACT DISC PLAYER REPAIRS

## 1. Preparations

- 1) Compact disc players incorporate a great many ICs as well as the pick-up (laser diode). These components are sensitive to, and easily affected by, static electricity. If such static electricity is high voltage, components can be damaged, and for that reason components should be handled with care.
- 2) The pick-up is composed of many optical components and other high-precision components. Care must be taken, therefore, to avoid repair or storage where the temperature or humidity is high, where strong magnetism is present, or where there is excessive dust.

## 2. Notes for repair

- 1) Before replacing a component part, first disconnect the power supply lead wire from the unit.
- 2) All equipment, measuring instruments and tools must be grounded.
- 3) The workbench should be covered with a conductive sheet and grounded.  
When removing the laser pick-up from its conductive bag, do not place the pick-up on the bag. (This is because there is the possibility of damage by static electricity.)
- 4) To prevent AC leakage, the metal part of the soldering iron should be grounded.
- 5) Workers should be grounded by an armband (1M  $\Omega$ ).
- 6) Care should be taken not to permit the laser pick-up to come in contact with clothing, in order to prevent static electricity changes in the clothing to escape from the armband.
- 7) The laser beam from the pick-up should NEVER be directly facing the eyes or bare skin.



## CLEARING MALFUNCTION

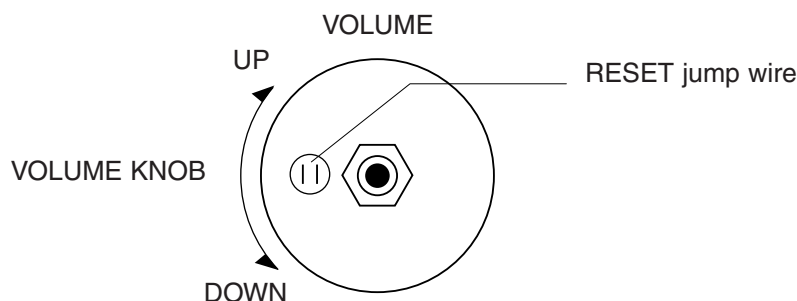
You can reset your unit to initial status if malfunction occur(button malfunction, display, etc.).

Using a pointed good conductor(such as driver), simply short the RESET jump wire on the inside of the volume knob for more than 3 seconds.

If you reset your unit, you must reenter all its settings(stations, clock, timer)

**NOTE:** 1. To operate the RESET jump wire, pull the volume rotary knob and release it.

2. If you wish to operate the RESET jump wire, it is necessary to unplug the power cord.





# ESD PRECAUTIONS

## Electrostatically Sensitive Devices (ESD)



Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive Devices (ESD). Examples of typical ESD devices are integrated circuits and some field-effect transistors and semiconductor chip components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ESD devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ESD devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESD devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESD devices.
6. Do not remove a replacement ESD device from its protective package until immediately before you are ready to install it. (Most replacement ESD devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive materials).
7. Immediately before removing the protective material from the leads of a replacement ESD device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

**CAUTION : BE SURE NO POWER IS APPLIED TO THE CHASSIS OR CIRCUIT, AND OBSERVE ALL OTHER SAFETY PRECAUTIONS.**

8. Minimize bodily motions when handling unpackaged replacement ESD devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ESD device).

## CAUTION. GRAPHIC SYMBOLS

	THE LIGHTNING FLASH WITH APROWHEAD SYMBOL. WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK.
	THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF IMPORTANT SAFETY INFORMATION IN SERVICE LITERATURE.

## SPECIFICATIONS

SECTION		MODEL	LM-M340A/D/X, LM-M342A/X
[General]		Power supply	Refer to the back panel of the unit.
		Power consumption	70 W
		Mass	8.0 kg
		External dimensions (WxHxD)	273 x 330 x 360 mm
[CD]		Frequency response	40 - 18000 Hz
		Signal-to-noise ratio	70 dB(1kHz)
		Dynamic range	70 dB(1kHz)
[Tuner]	FM	Tuning Range	87.5 - 108.0 MHz or 65 - 74 MHz, 87.5 - 108.0 MHz
		Intermediate Frequency	10.7 MHz
		Signal to Noise Ratio	60/55 dB
		Frequency Response	60 - 10000 Hz
	AM (MW)	Tuning Range	522 - 1611 kHz or 530 - 1610 kHz
		Intermediate Frequency	450 kHz
		Signal to Noise Ratio	35 dB
		Frequency Response	100 - 1800 Hz
[Amp]		Output Power	30W+30W
		T.H.D	0.15%
		Frequency Response	42 - 25000 Hz
		Signal-to-noise ratio	80 dB
[TAPE]		Tape Speed	4.75 cm/s ec
		Wow Flutter	0.25% (MTT -111, JIS-WTD)
		F.F/REW Time	120sec (C-60)
		Frequency Response	250 - 8000Hz
		Signal to Noise Ratio	43dB
		Channel Separation	50dB(P/B)/45dB(R/P)
		Erase Ratio	55dB (MTT-5511)
[Speakers]			<b>LMS-M340, LMS-M342</b>
		Type	2 Way 2 Speaker
		Impedance	6Ω
		Frequency Response	50 - 20000 Hz
		Sound Pressure Level	84 dB/W (1m)
		Rated Input Power	30 W
		Max. Input Power	60 W
		Net Dimensions (WxHxD)	200 X 326 X 241 mm
		Net Weight (1EA)	3.2 kg

Designs and specifications are subject to change without notice.

**MEMO**

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# SECTION 2. ELECTRICAL

## ADJUSTMENTS

This set has been aligned at the factory and normally will not require further adjustment. As a result, it is not recommended that any attempt is made to modificate any circuit. If any parts are replaced or if any-one tampers with the adjustment, realignment may be necessary.

### IMPORTANT

1. Check Power-source voltage.
2. Set the function switch to band being aligned.
3. Turn volume control to minimum unless otherwise noted.
4. Connect low side of signal source and output indicator to chassis ground unless otherwise specified.
5. Keep the signal input as low as possible to avoid AGC and AC action.

## TAPE DECK ADJUSTMENT

### 1. AZIMUTH ADJUSTMENT

Deck Mode	Test Tape	Test Point	Adjustment	Adjust for
Palyback	MTT-114	Speaker Out	DECK Screw Azimuth Screw	Maximum

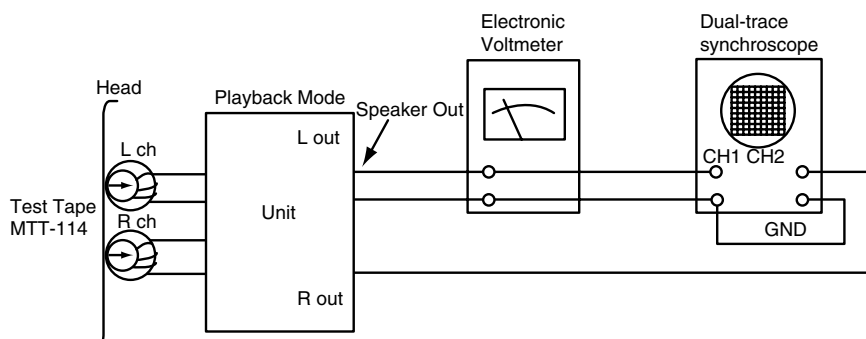
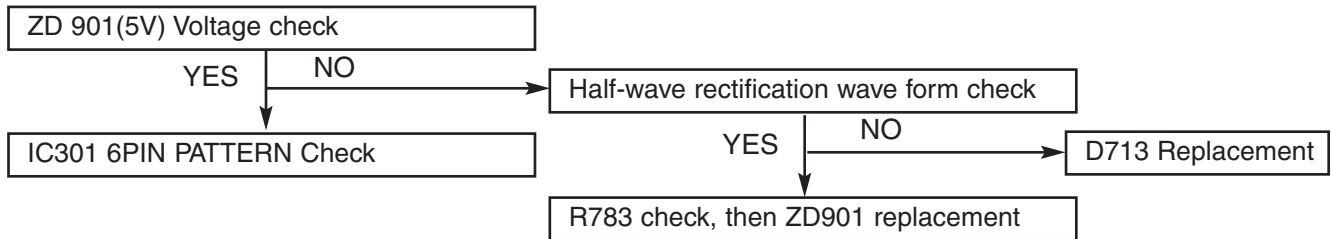


Figure 1. Azimuth Adjustment Connection Diagram

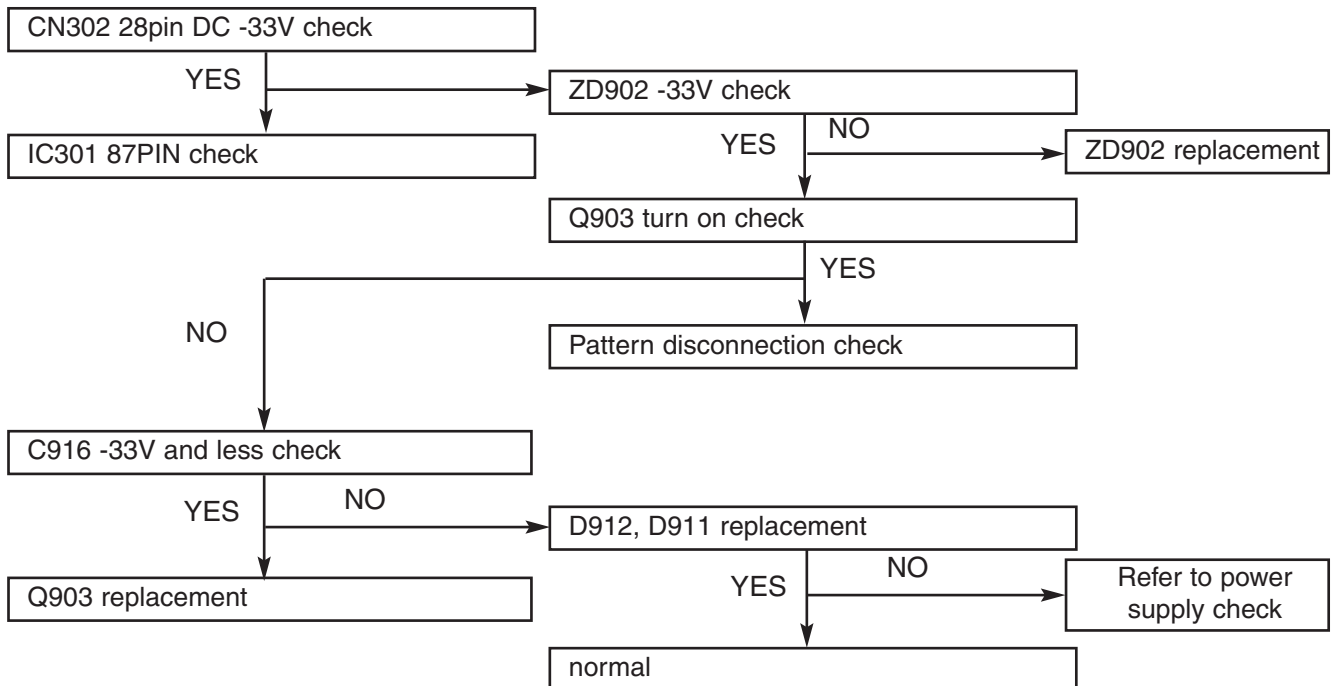
# ■ ELECTRICAL TROUBLESHOOTING GUIDE

## ■ AUDIO PART

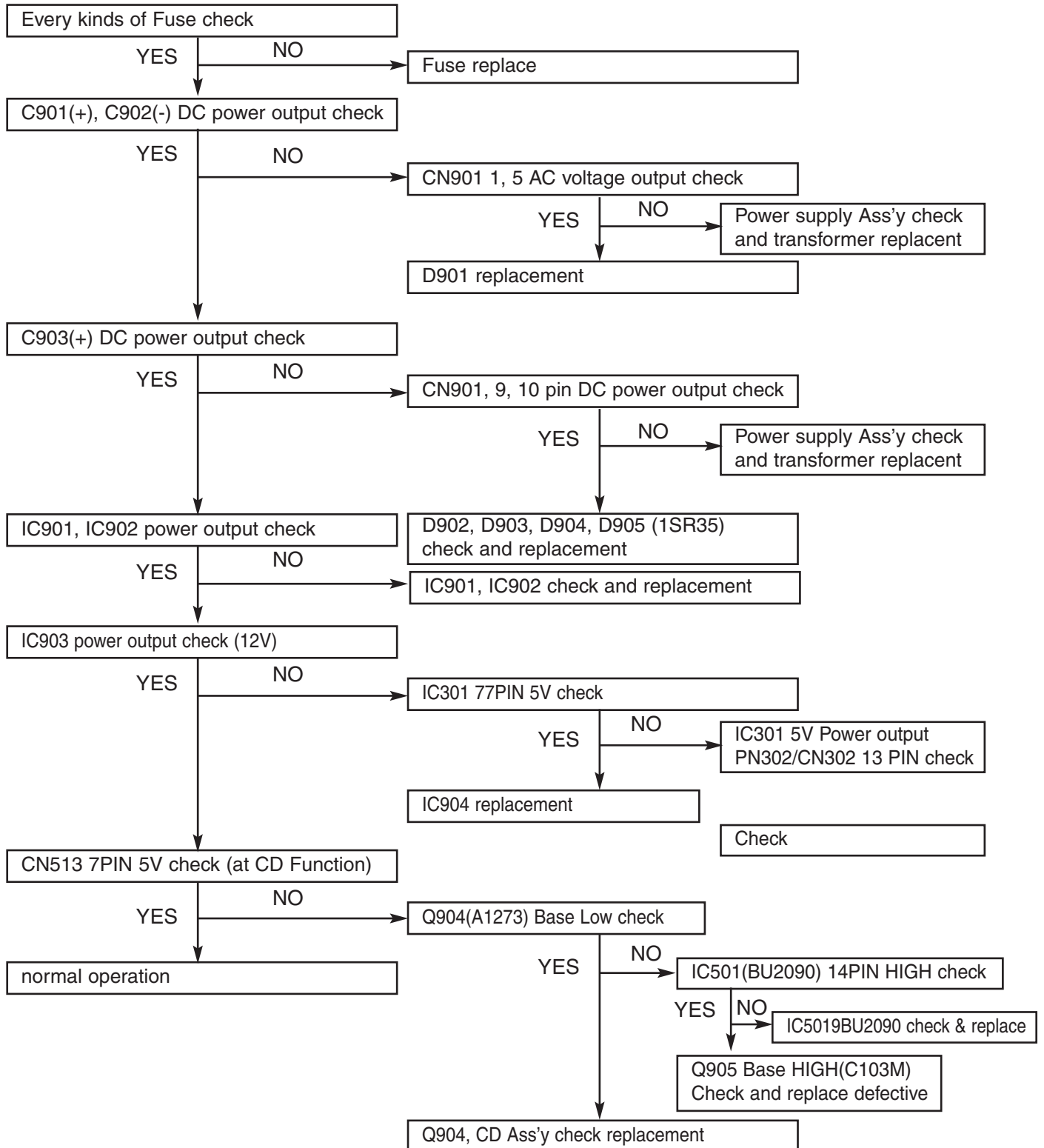
### P-SENS PART CHECK



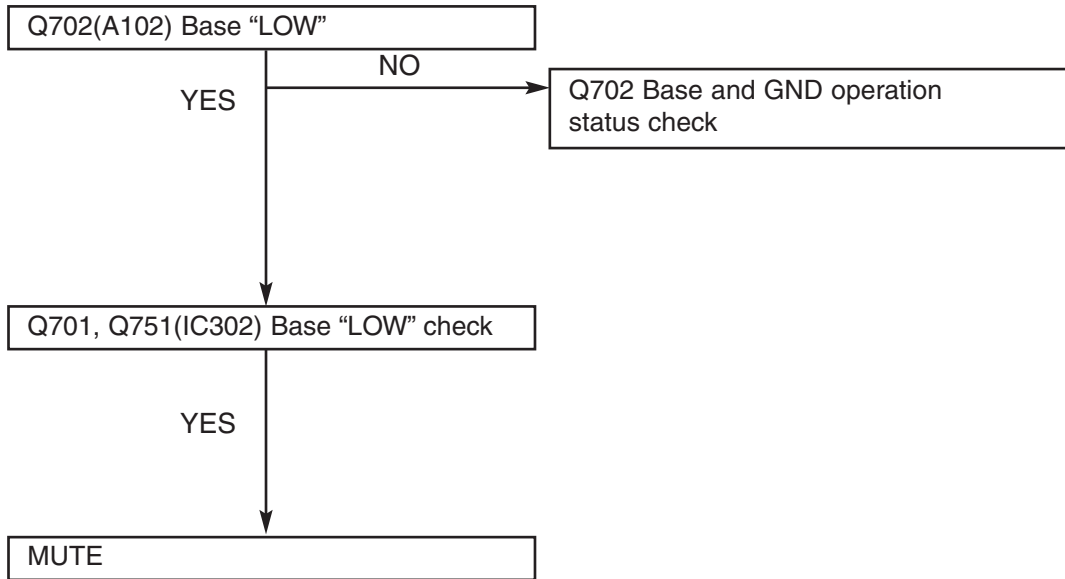
### VKK CHECK



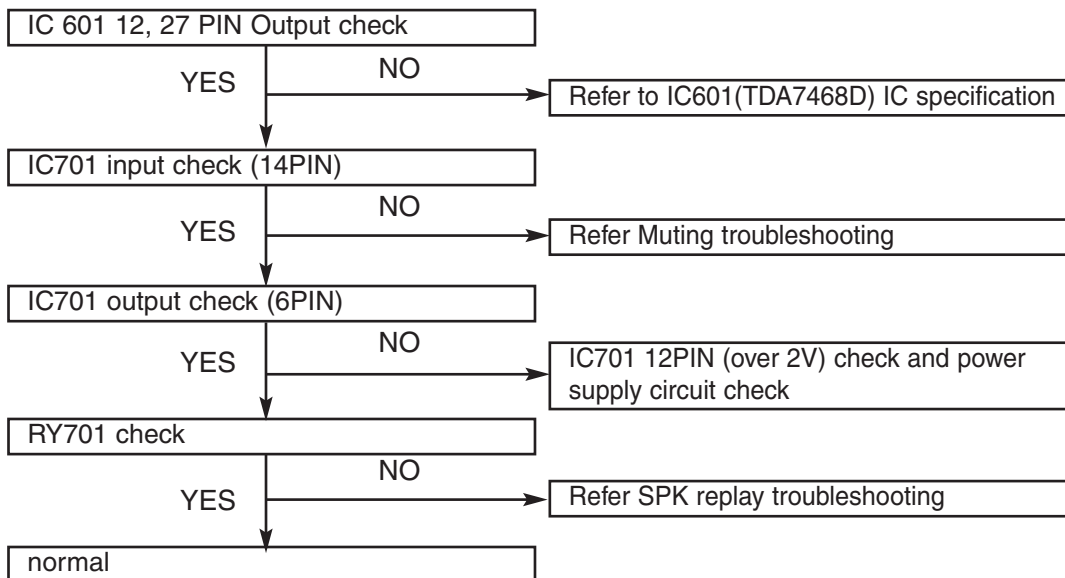
## POWER CHECK



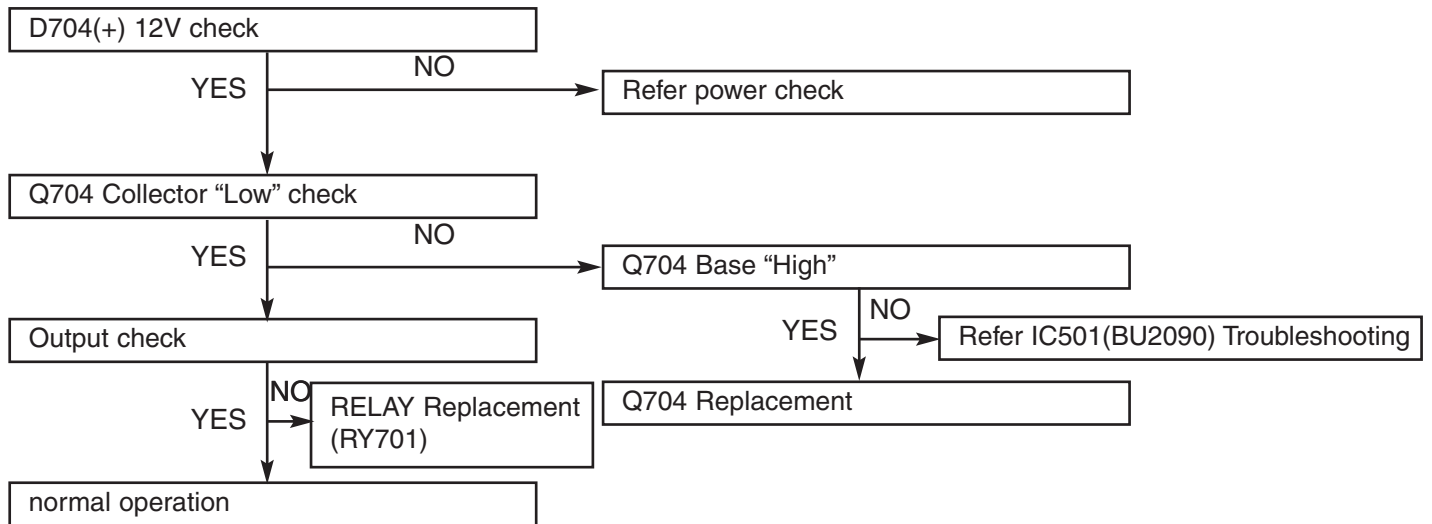
### Muting circuit Troubleshooting (if MUTE)



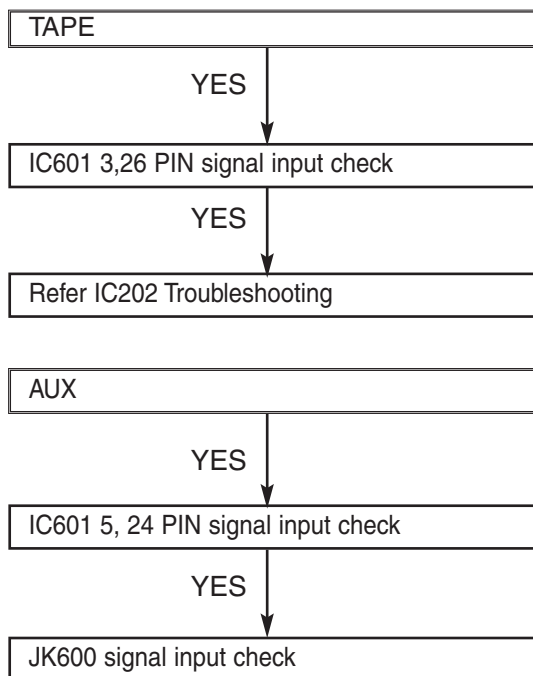
### No sound



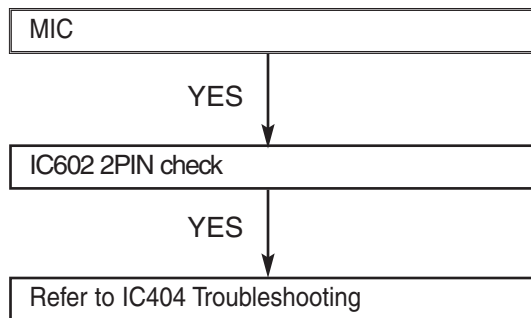
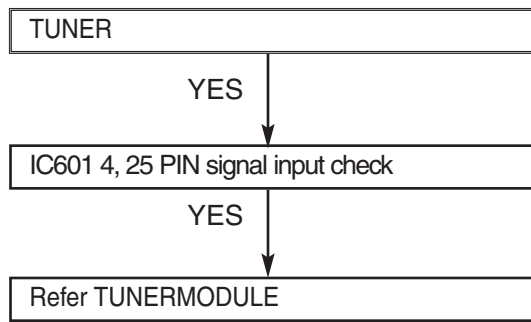
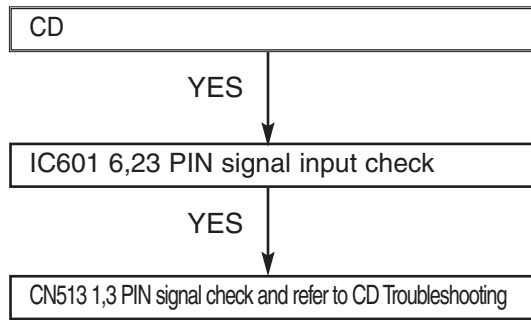
### SPK Relay Troubleshooting



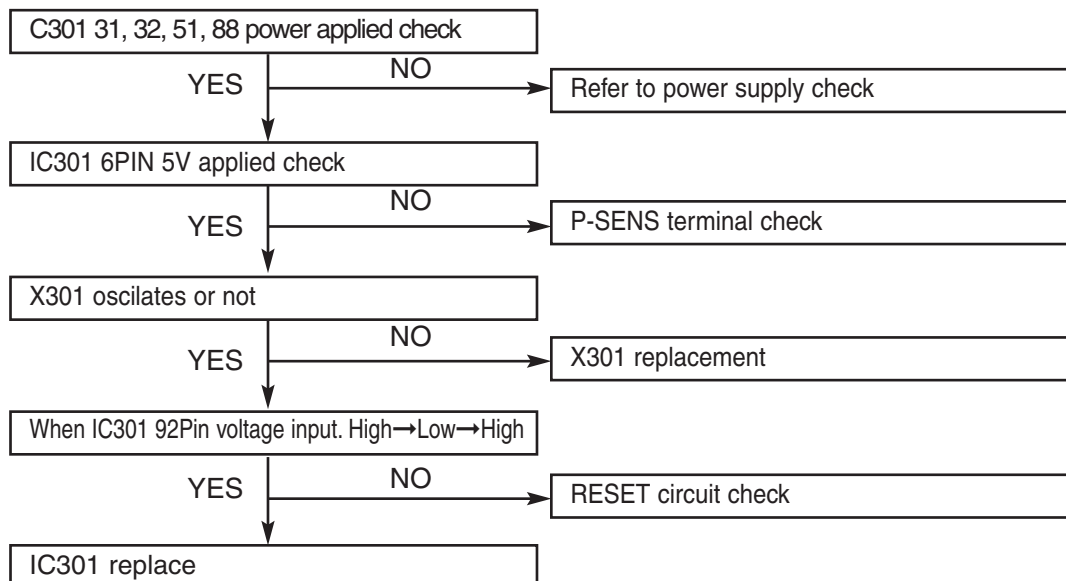
### Specific FUNCTION MODE has no sound



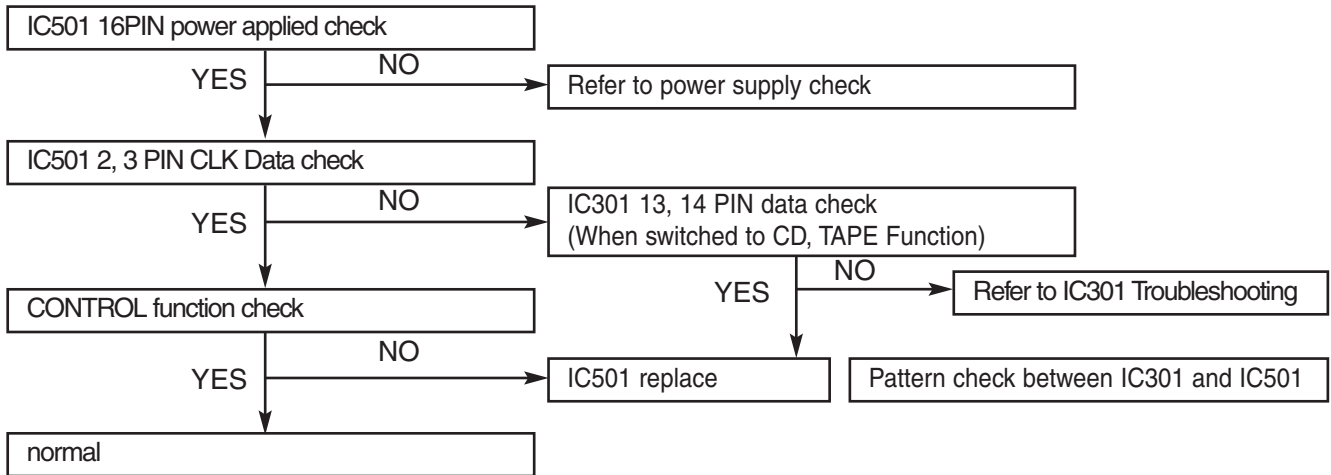




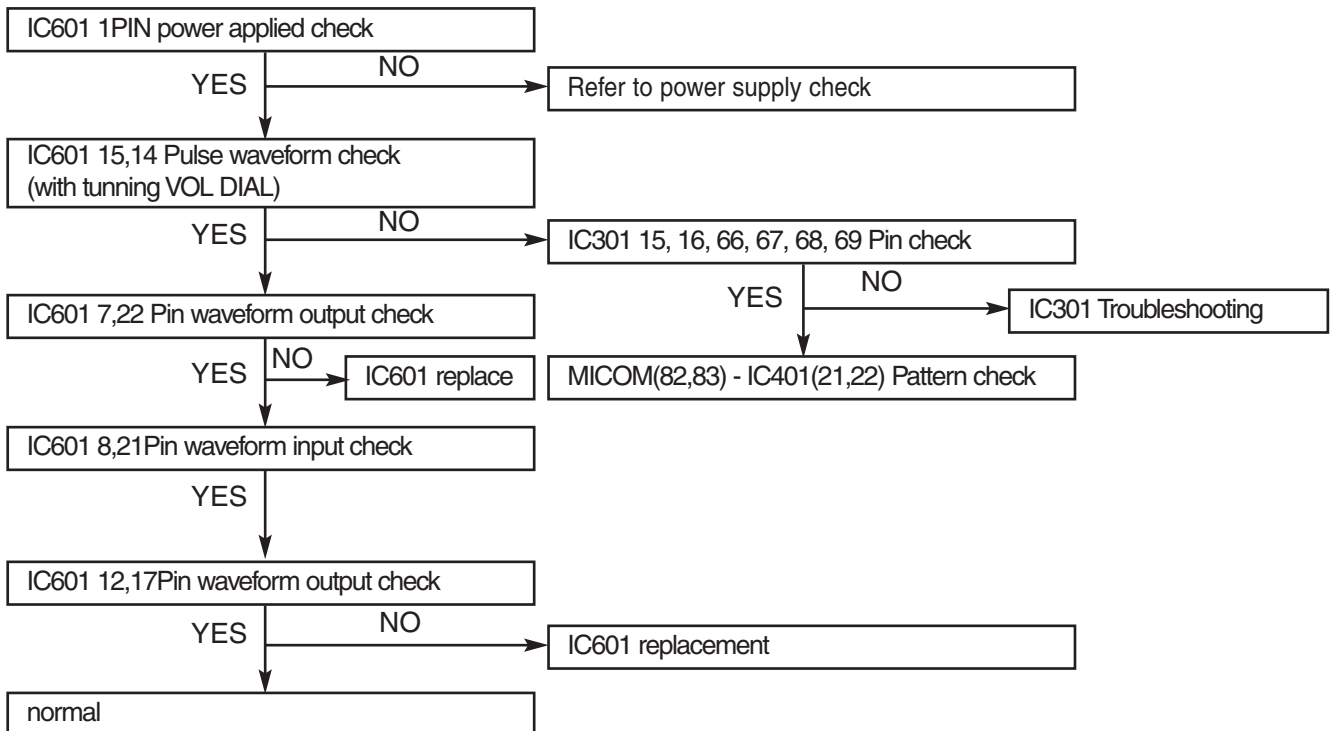
### IC301 Troubleshooting



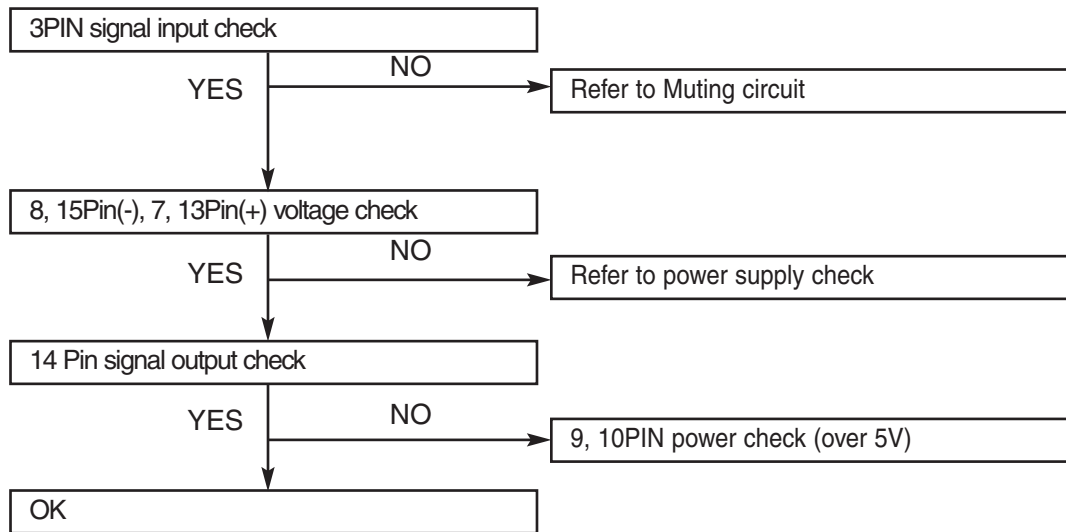
### IC501 Troubleshooting



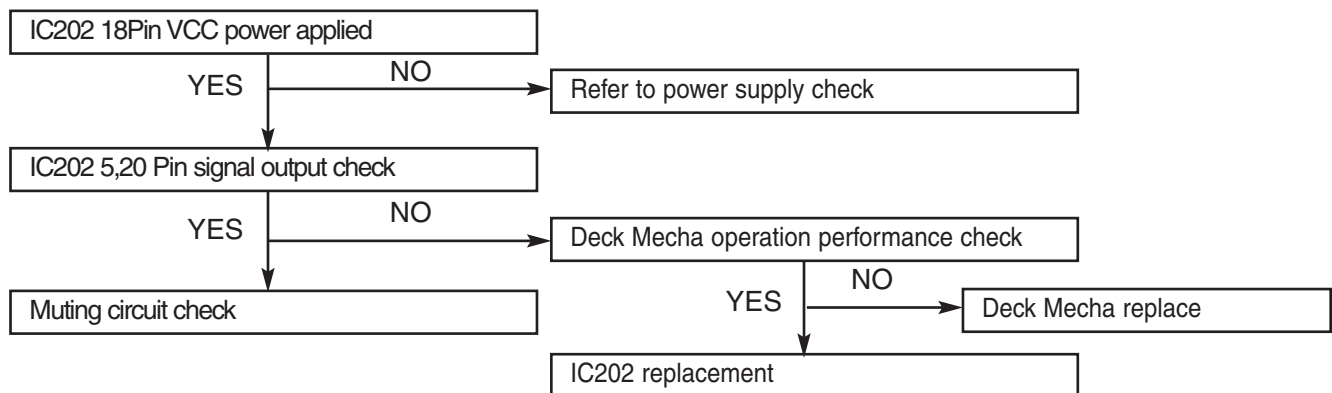
### IC601(TDA7468D) Troubleshooting



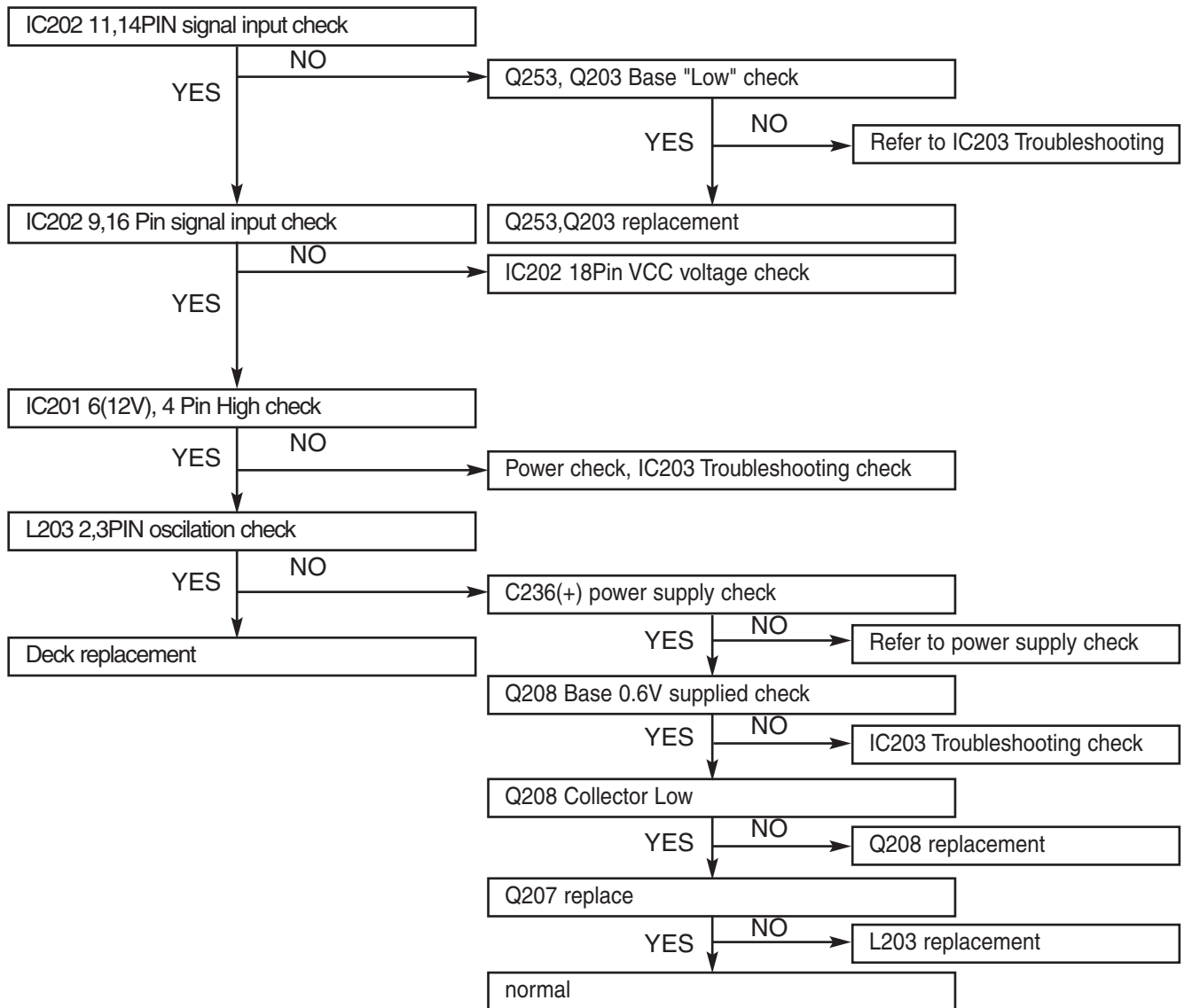
### IC701, IC751 Troubleshooting



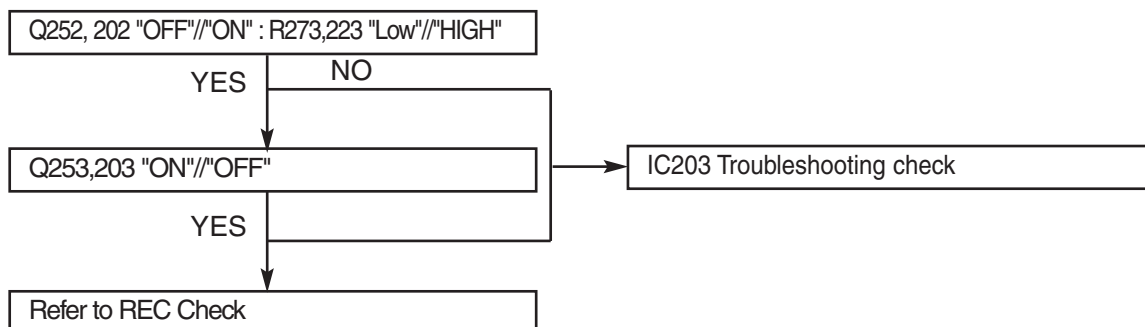
### PLAY check



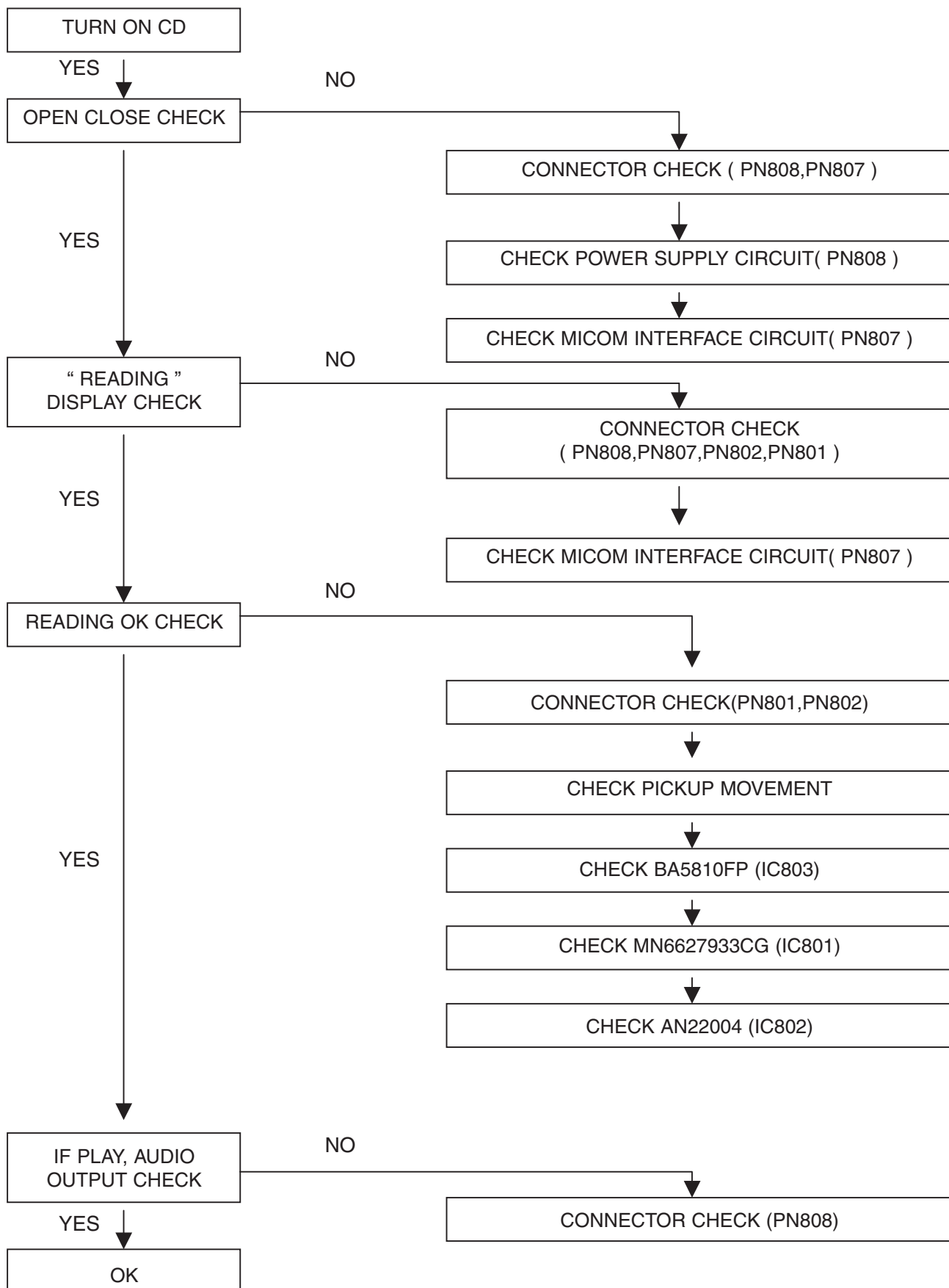
### Rec check (Q252, Q202 ON : R273, R223 High)



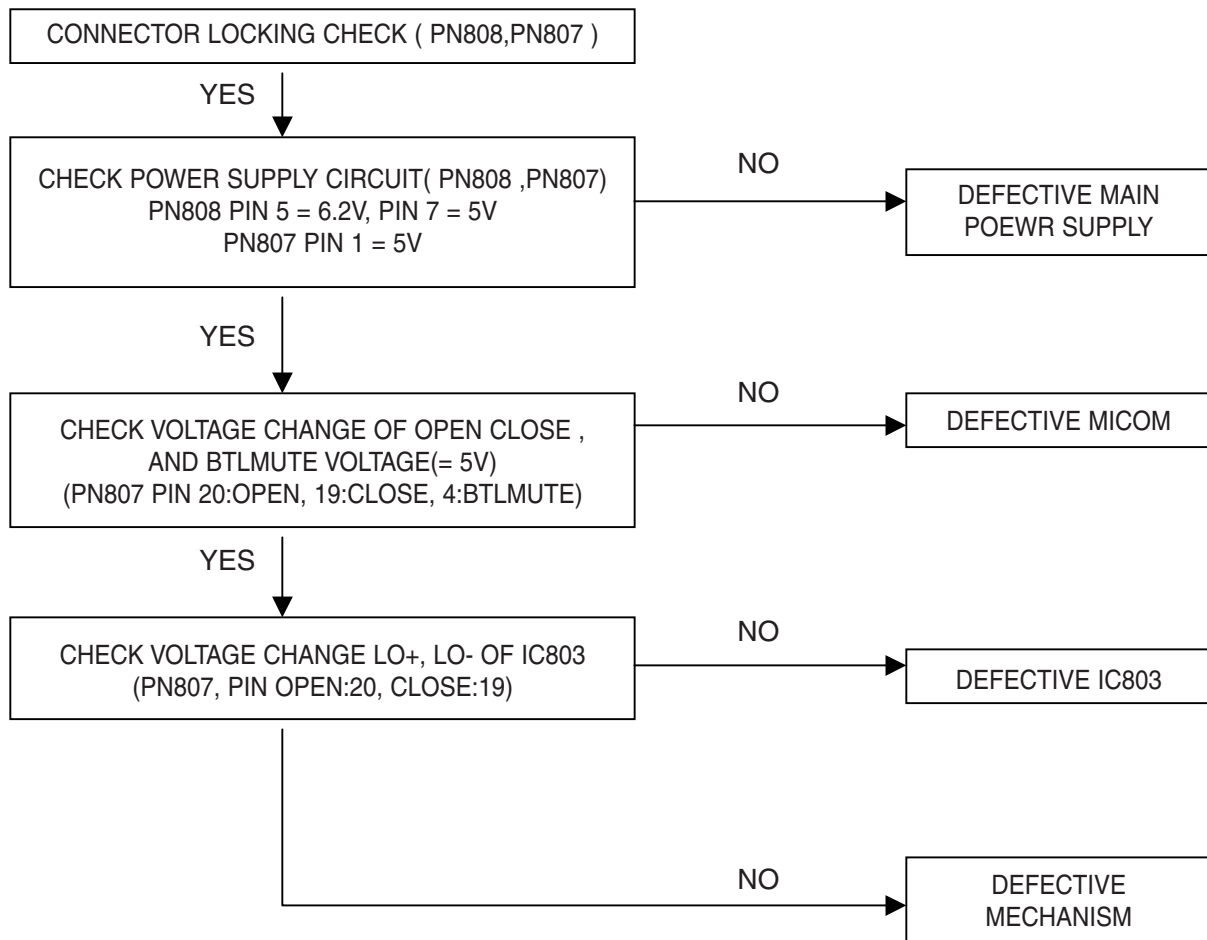
### Dubbing check ("NORMAL or REC"//"HIGH")



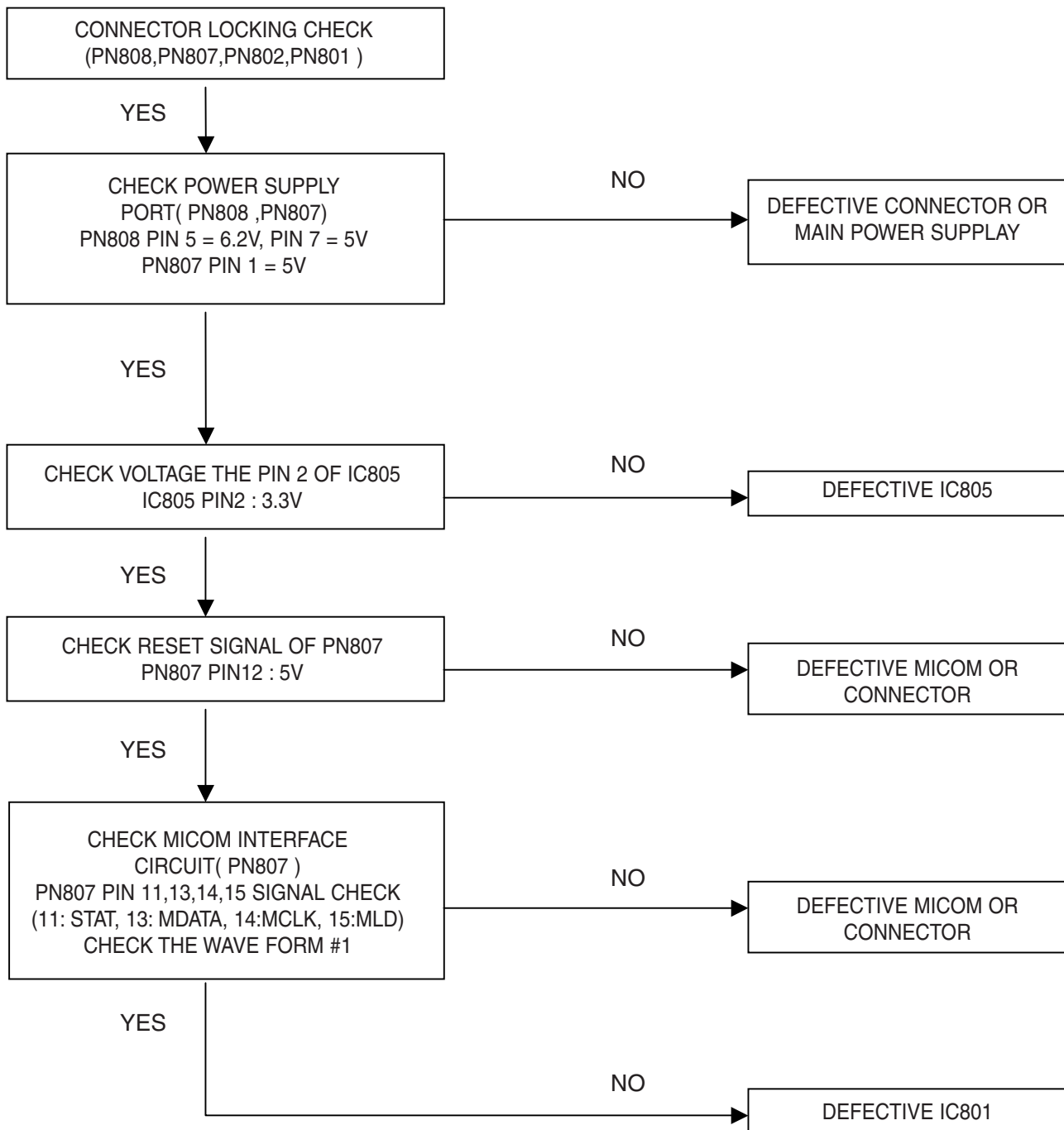
## ■ CD PART



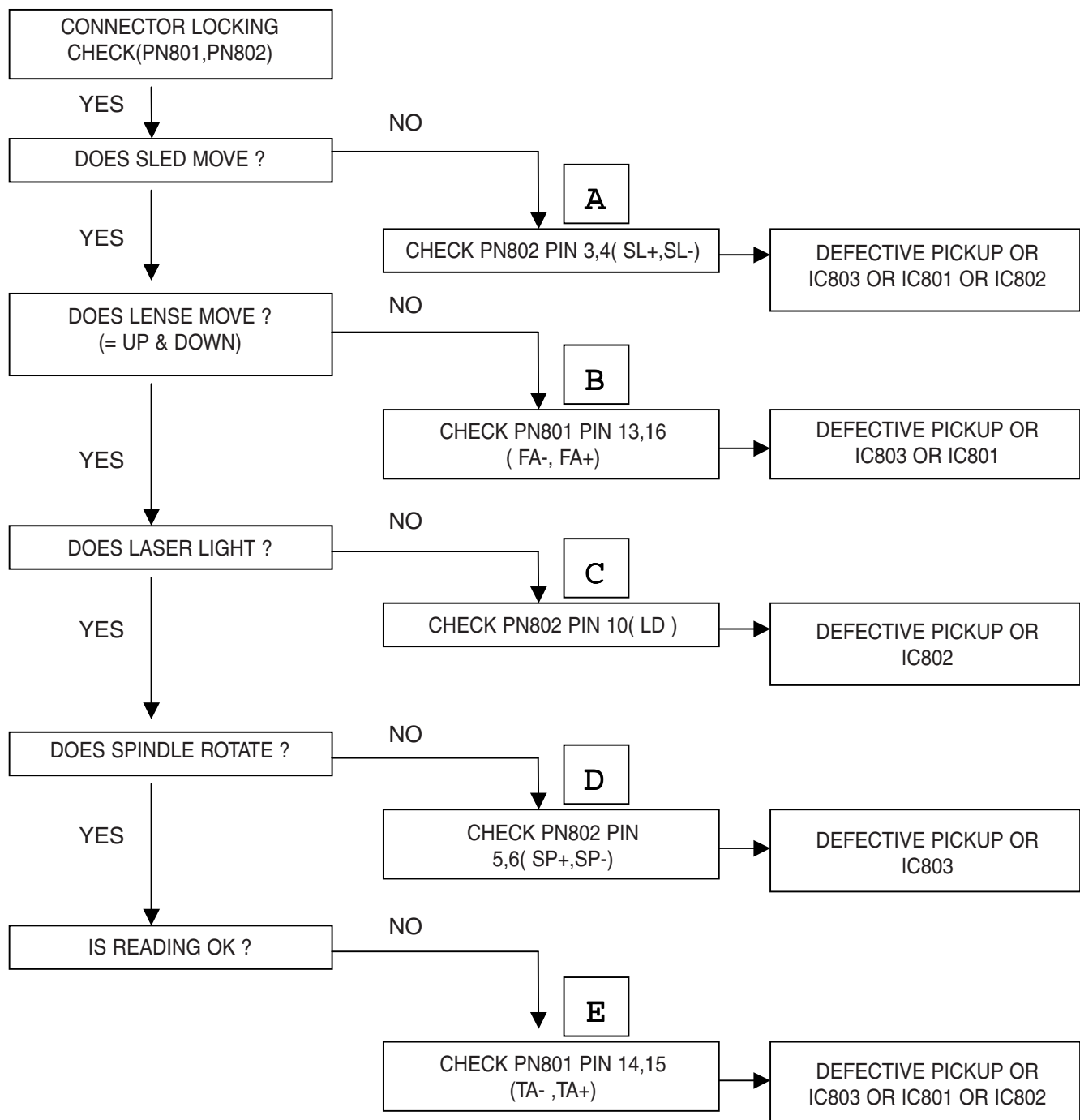
## OPEN CLOSE NG



## READING DISPLAY CHECK (= ONLY “CD “DISPLAY)

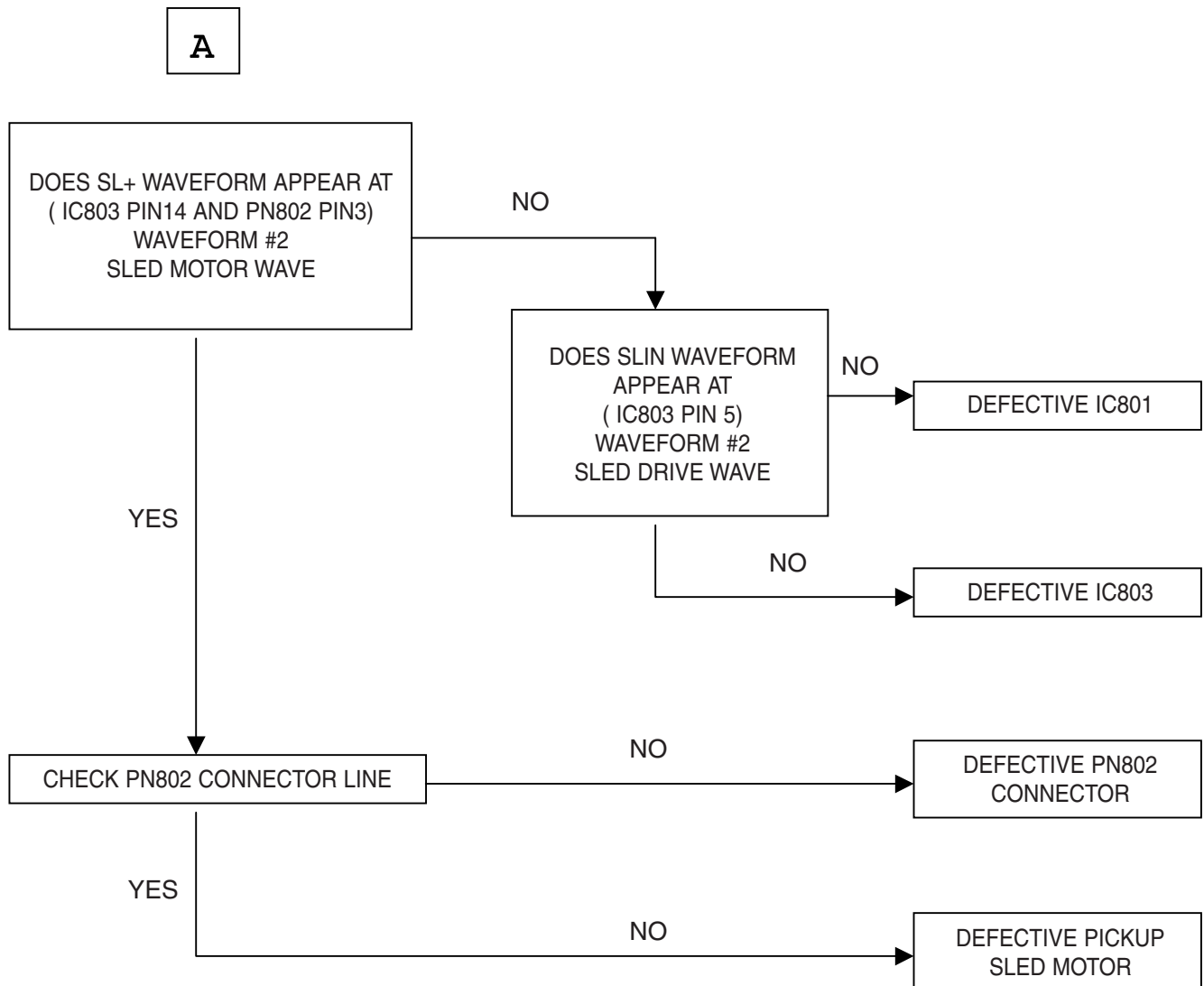


## READING OK CHECK (= “NO DISC” DISPLAY)



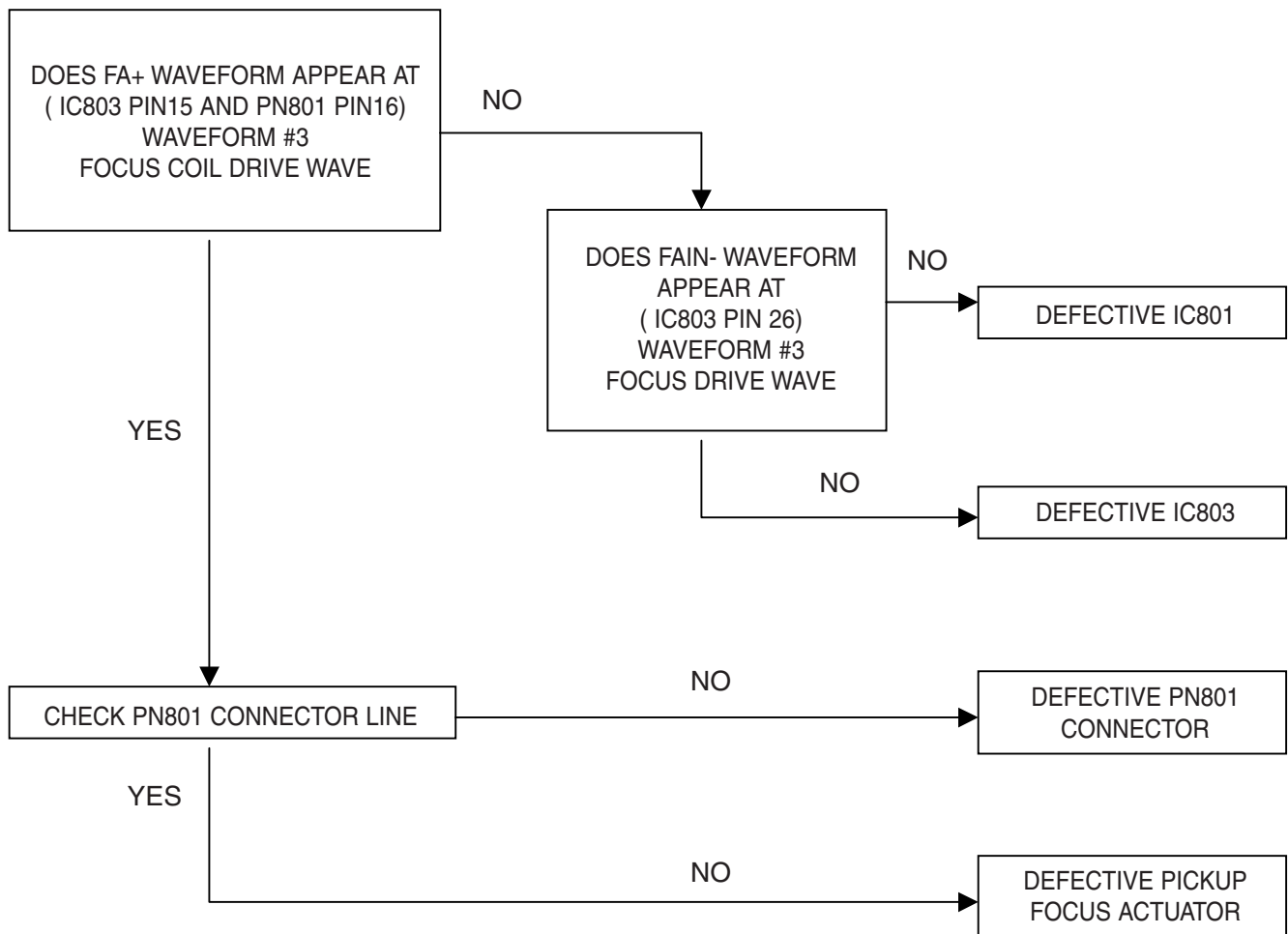


## READING OK CHECK #A (= “NO DISC” DISPLAY)

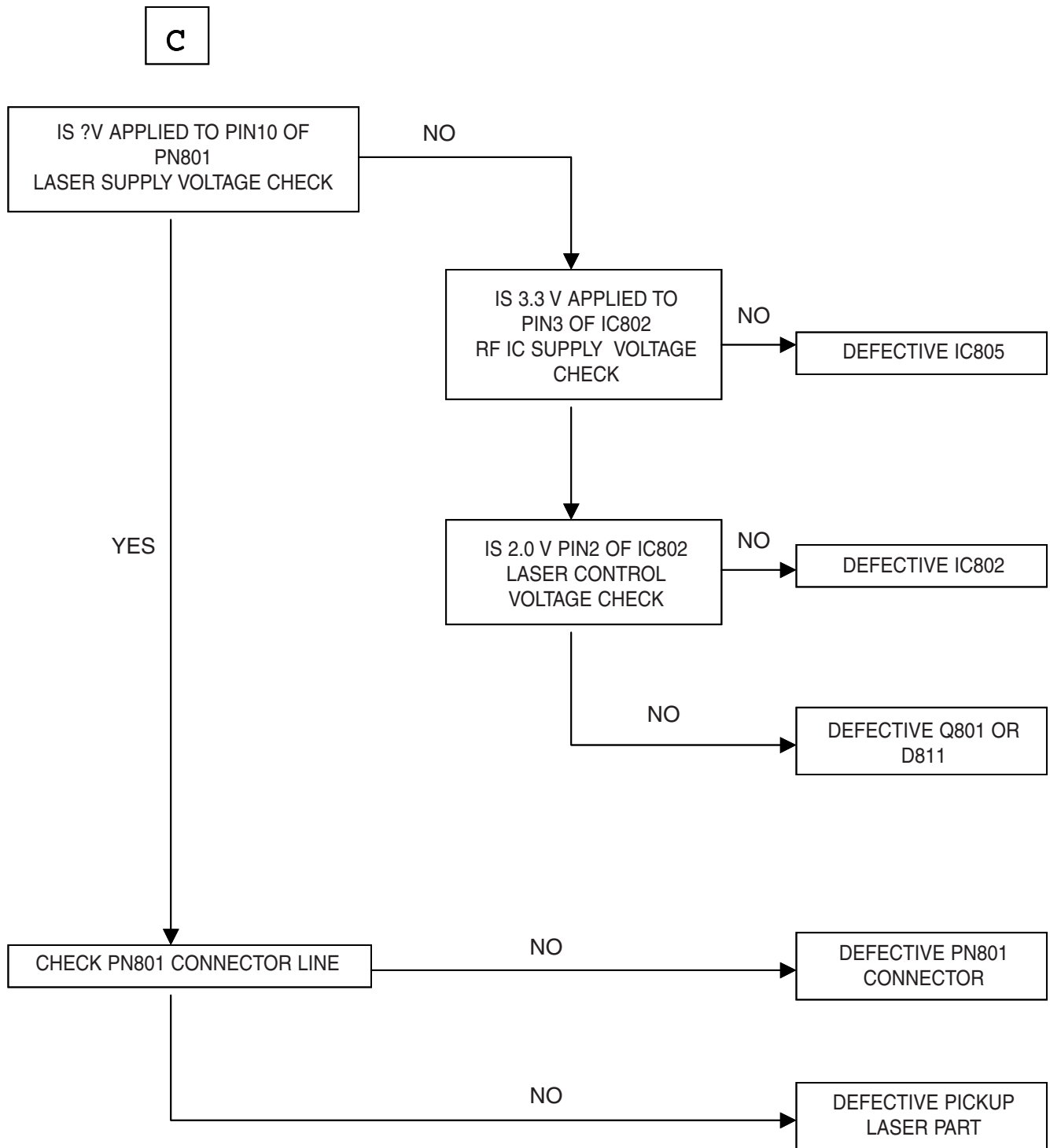


## READING OK CHECK #B (= “NO DISC” DISPLAY)

B

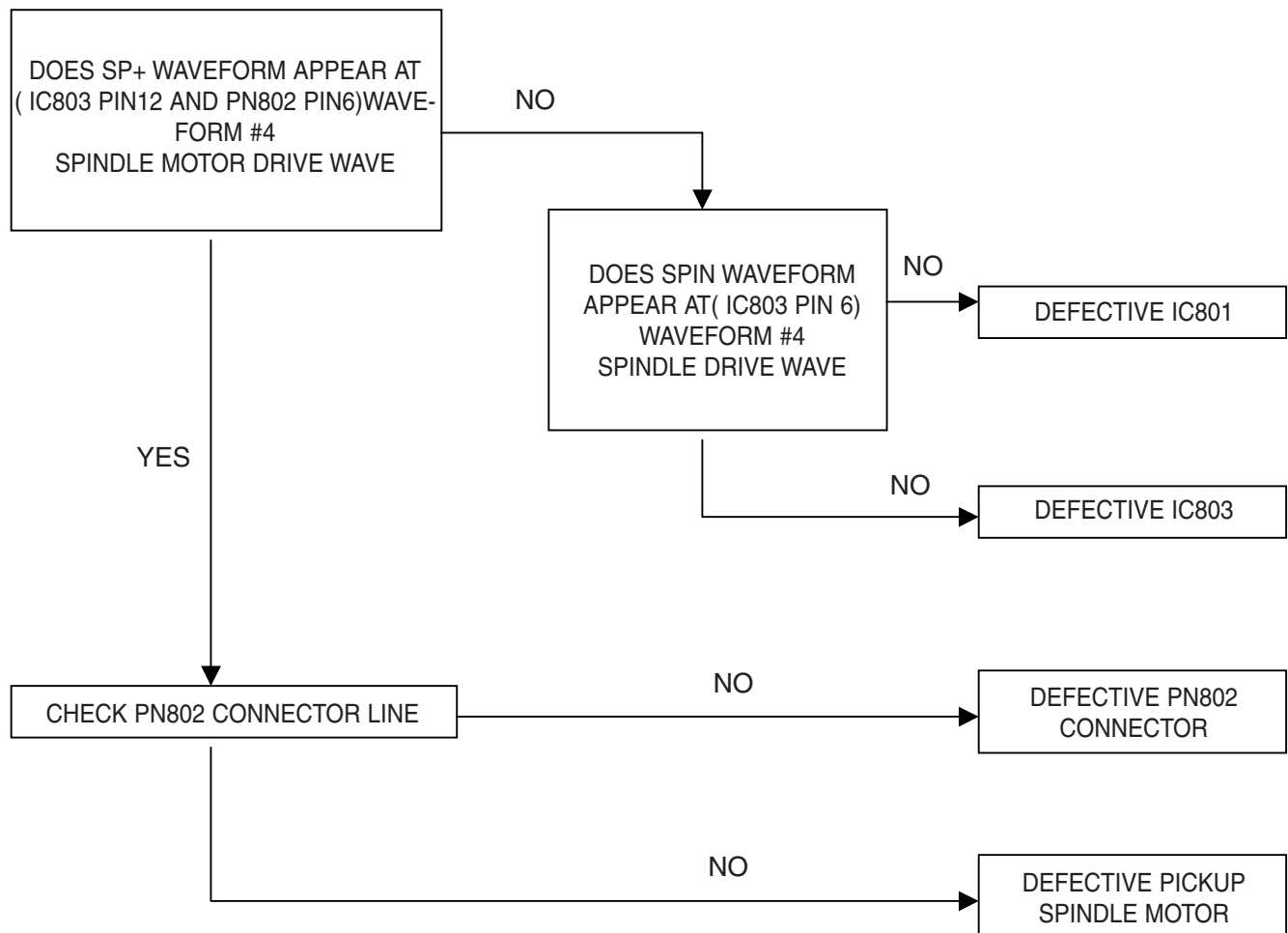


READING OK CHECK #C (= “NO DISC” DISPLA)

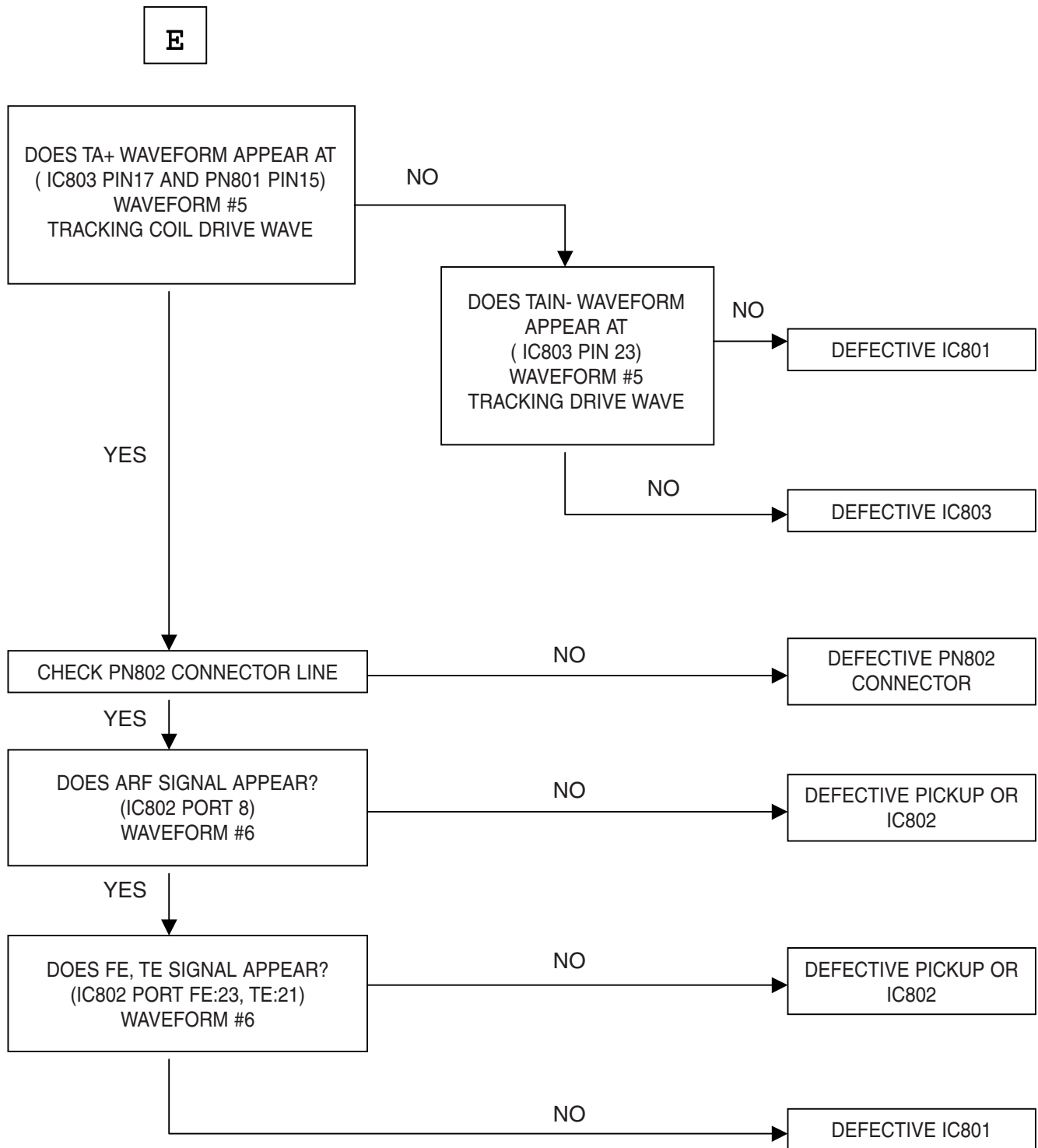


## READING OK CHECK #D (= “NO DISC” DISPLAY)

D

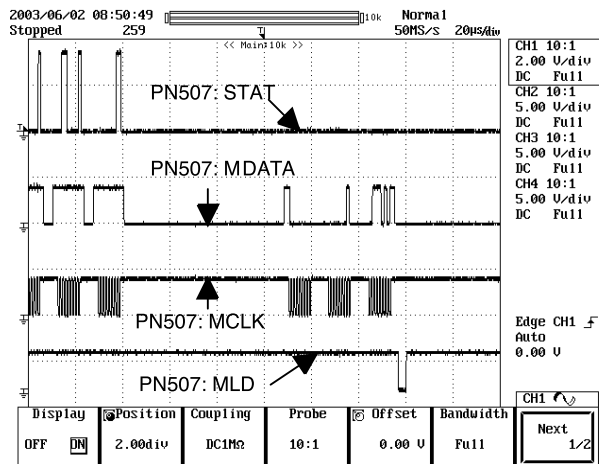


## READING OK CHECK #E (= “NO DISC” DISPLAY)

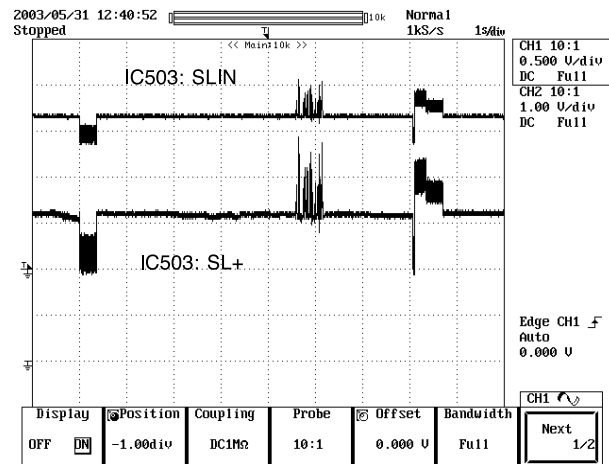


# WAVEFORMS OF MAKOR CHECK POINT

## #1 . MICOM INTERFACE WAVEFORM (PN507 pin6, 8, 9, 1 0) during normal play

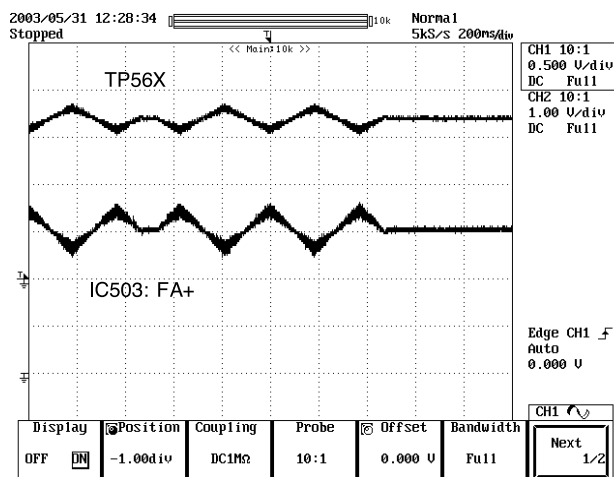


## #2. SLED DRIVE AND MOTOR WAVEFORM (IC503 pin5, 1 4) when focus search

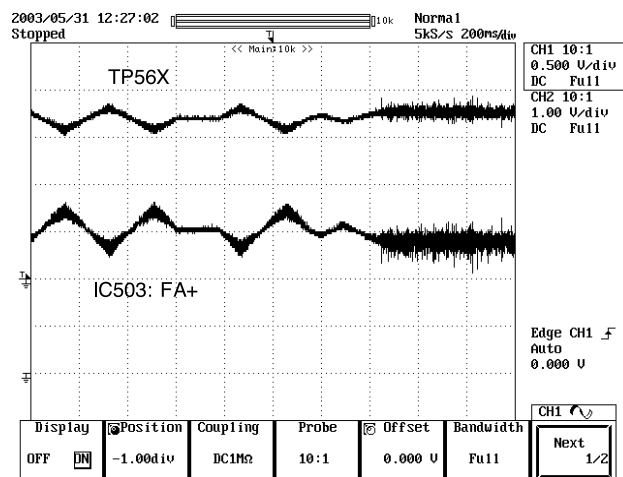


## #3. FOCUS DRIVE AND MOTOR WAVEFORM (TP56 1 , IC503 pin 1 5)

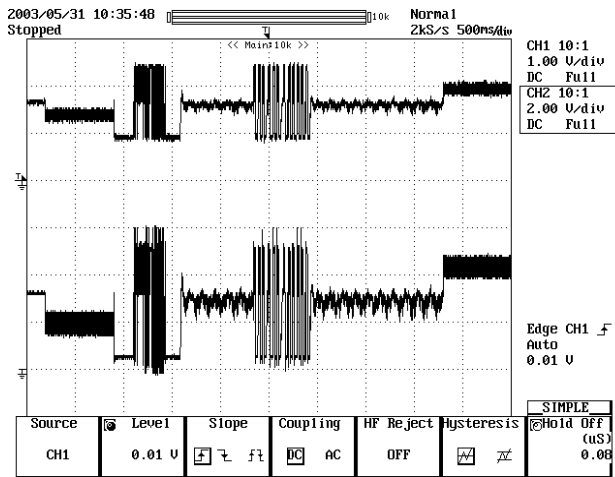
- When focus search failed or there is no disc on tray



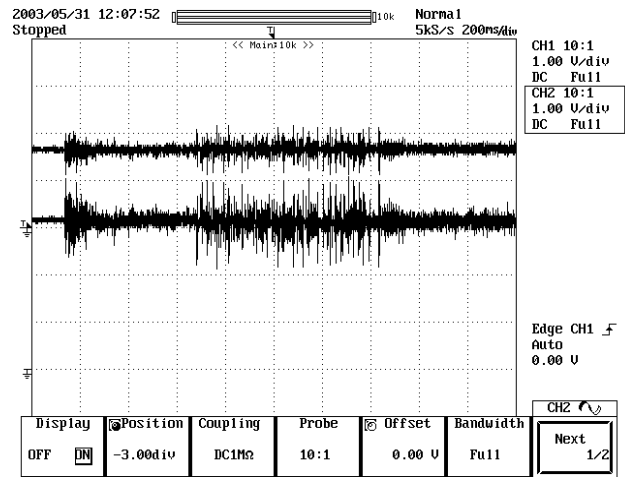
- There is disc on tray and focus search success



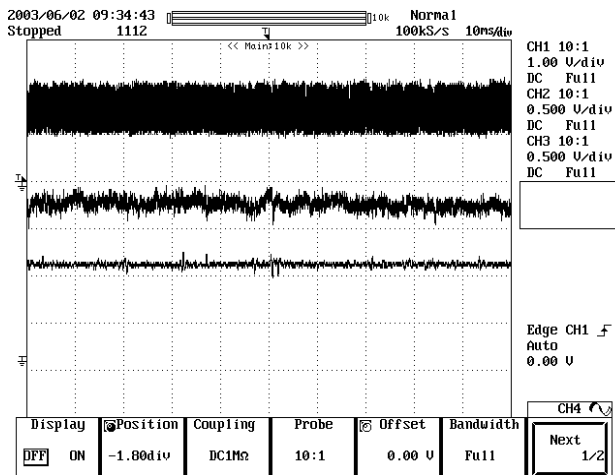
#### #4. SPINDLE DRIVE AND MOTOR WAVEFORM (IC503 pin6, 1 2) when TOC reading



#### #5. TRACK DRIVE AND MOTOR WAVEFORM (TP560, IC503 pin23) during normal play

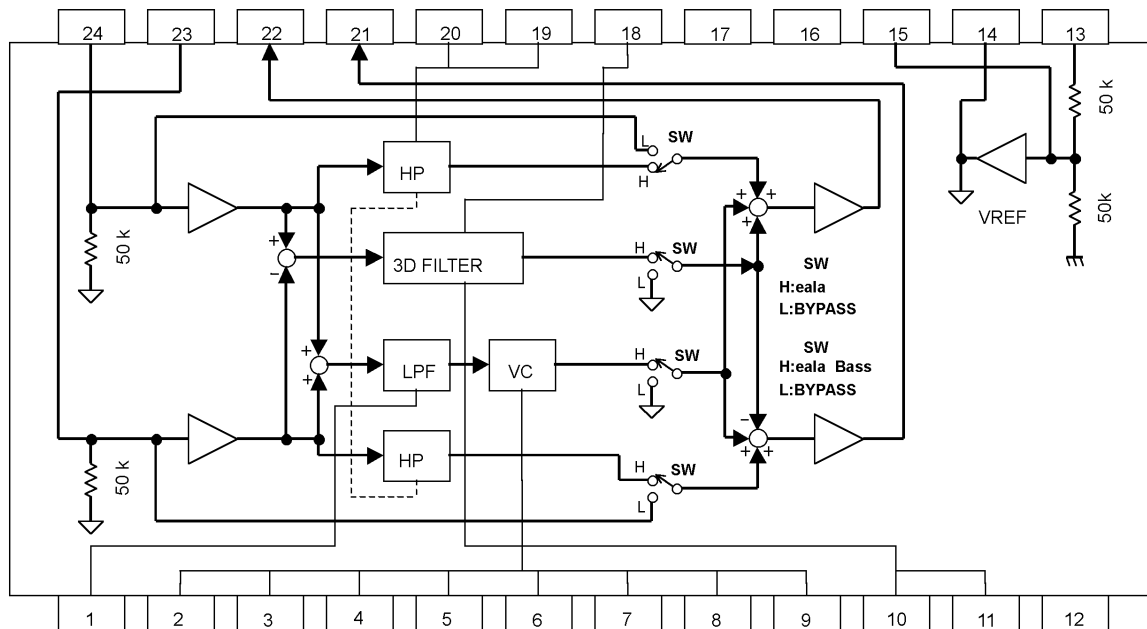


#### #6. RF, TRACKING AND FOCUS ERROR WAVEFORM (IC502 pin8, 2 1 , 23) during normal play

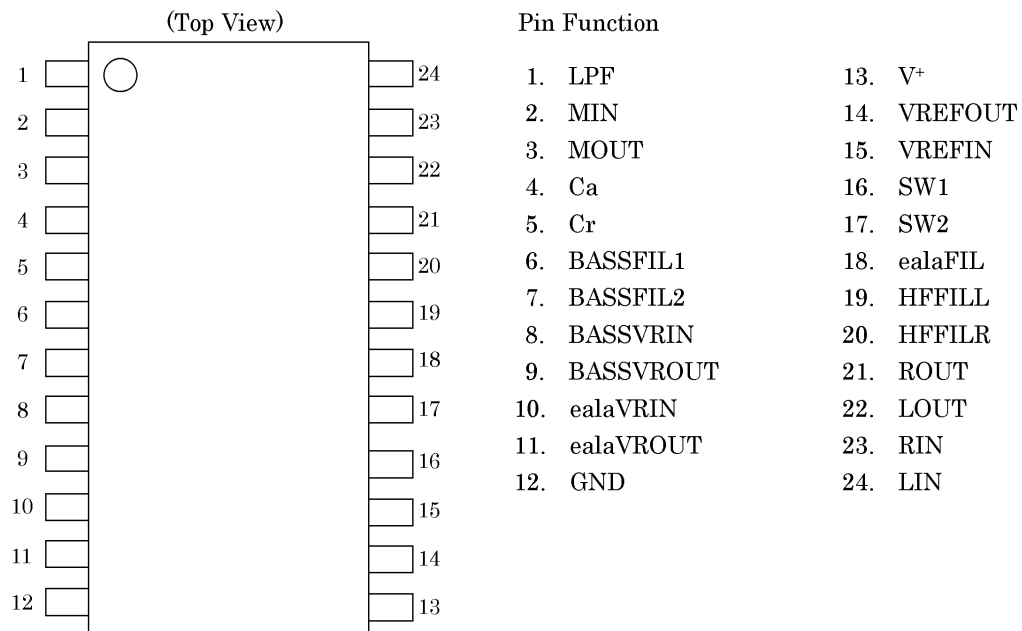


# INTERNAL BLOCK DIAGRAM of ICs

## • NJM2706M (IC1) BLOCK DIAGRAM

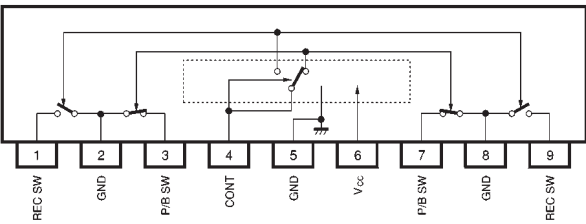


## PIN CONFIGURATION

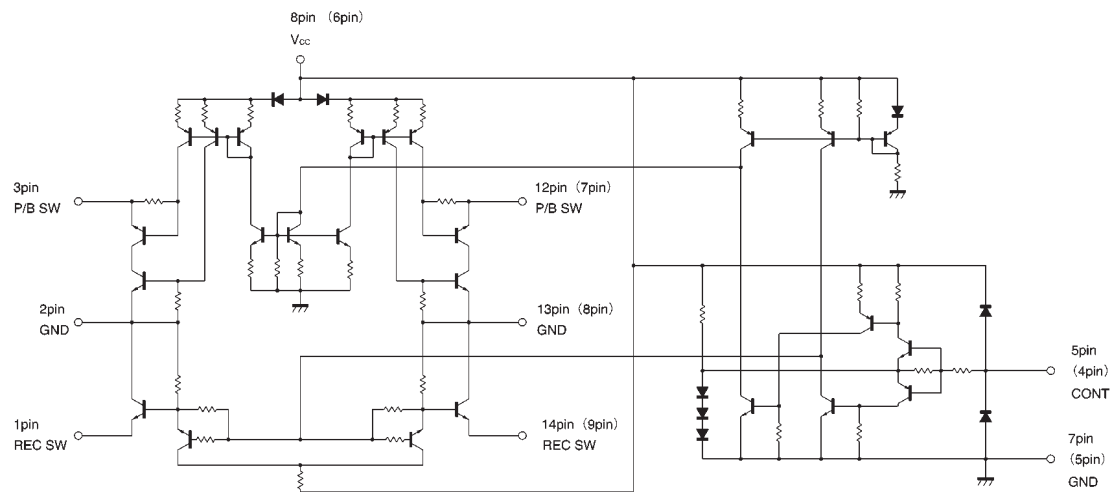




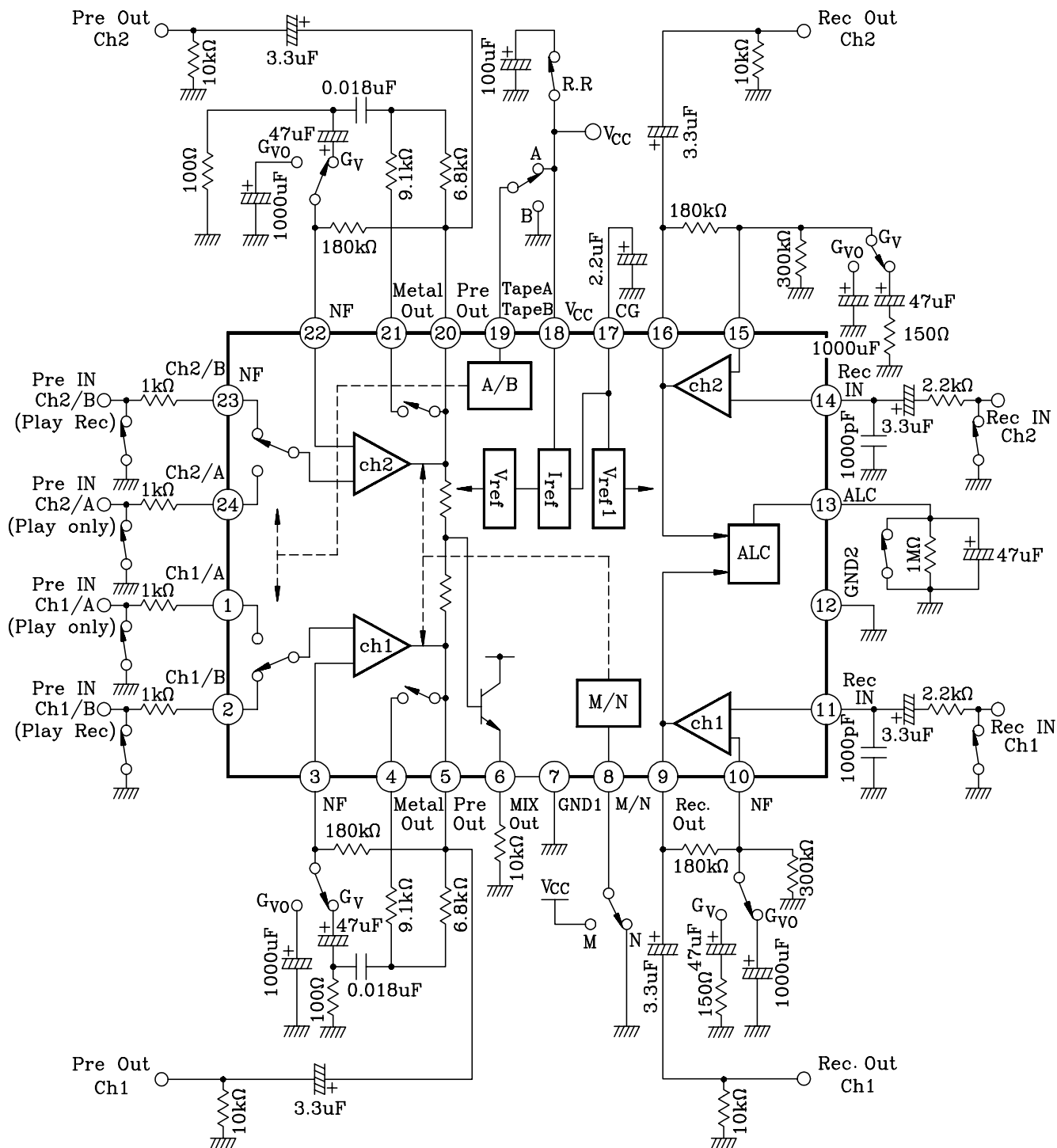
• BA3126N (IC201)  
BLOCK DIAGRAM



PIN CONFIGURATION



• KIA6289N (IC202)  
BLOCK DIAGRAM



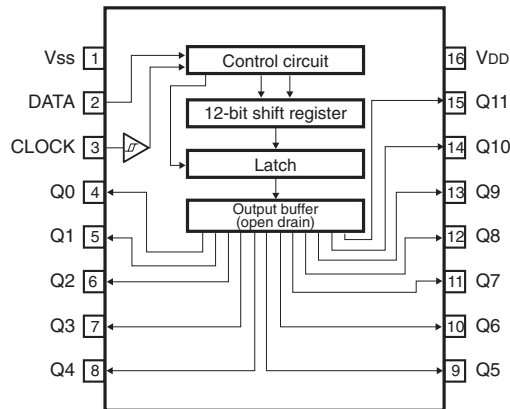
# TERMINAL EXPLANATION

NO.	TERMINAL NAME	FUNCTION	EQUIVALENT CIRCUIT
1	TAPE A IN (ch1)	Tape Play Back Input (Play)	
24	TAPE A IN (ch1)		
2	TAPE B IN (ch2)	Tape Play Back Input (Play/Rec)	
23	TAPE B IN (ch2)		
3	PB NF (ch1)	Tape Play Back NF	
22	PB NF (ch2)		
4/21	Metal Out	Play Back Amp Metal Output	
5	Pre Out (ch1)	Play Back Amp Output	
20	Pre Out (ch2)		
6	MIX OUT	Mixing Output	
7	GND	GND	

NO.	TERMINAL NAME	FUNCTION	EQUIVALENT CIRCUIT
8	Metal/Normal SW	Change Over Switch for Metal Mode and Normal Mode.	
9	Rec Out (Ch1)	Recording Amp Output	
16	Rec Out (Ch2)		
10	Rec NF(Ch1)	Recording Amp NF	
15	Rec NF(Ch2)		
11	Rec IN (Ch1)	Recording Amp Input	
14	Rec IN (Ch2)		
12	GND	GND	

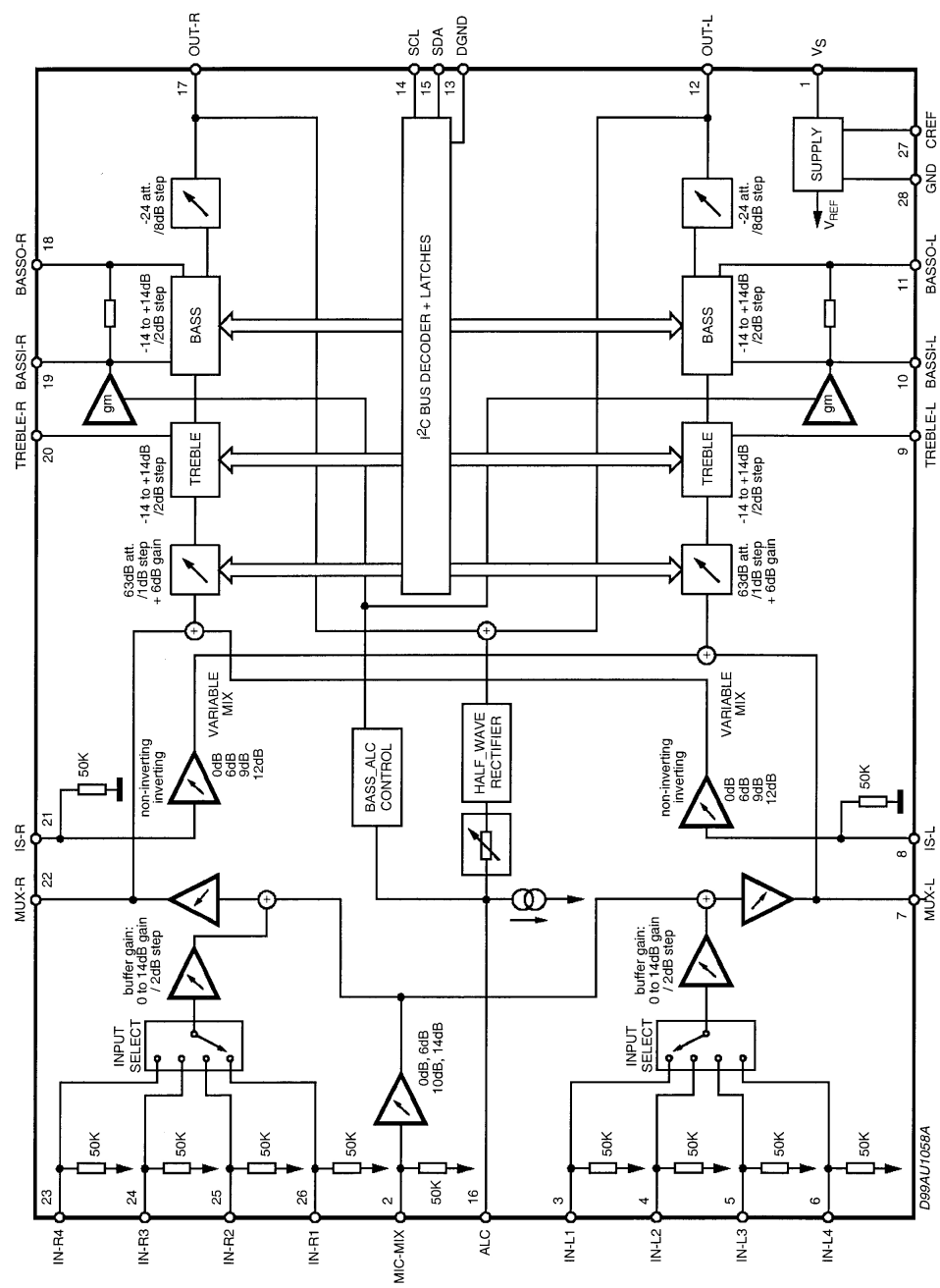
NO.	TERMINAL NAME	FUNCTION	EQUIVALENT CIRCUIT
13	ALC T.G	Automatic Level Control (ALC) Time Constant Terminal	
17	CG Det.	NF Charge up Circuit Switching Terminal	
19	TAPE A/TAPE B SW	Play Back Amp Input Selector	

- **BU2090F (IC 501)**  
12-bit, Serial IN, Parallel OUT driver

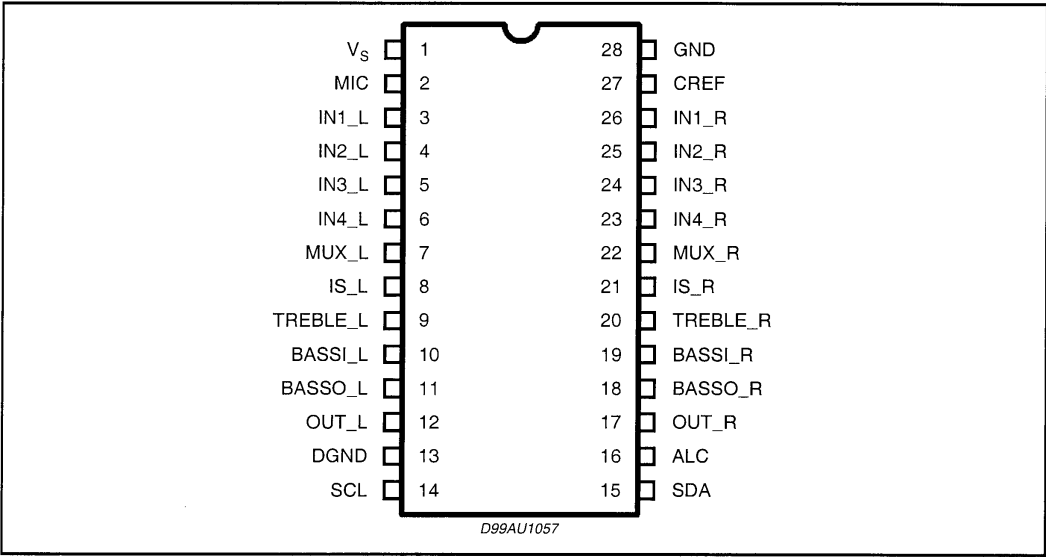


Pin No.			Pin name	Function
BU2090/F/FS	BU2092/F	BU2092/FV		
1	1	1	Vss	GND
2	2	2	DATA	Serial data input
3	3	3	CLOCK	Data shift clock input
-	4	4	LCK	Data latch clock input
4	5	5	Q0	parallel data output
5	6	6	Q1	parallel data output
6	7	7	Q2	parallel data output
7	8	8	Q3	parallel data output
8	9	9	Q4	parallel data output
9	10	10	Q5	parallel data output
10	11	11	Q6	parallel data output
-	-	12	N.C.	Not connected
-	-	13	N.C.	Not connected
11	12	14	Q7	parallel data output
12	13	15	Q8	parallel data output
13	14	16	Q9	parallel data output
14	15	17	Q10	parallel data output
15	16	18	Q11	parallel data output
-	17	19	OE	Output Enable
16	18	20	VDD	Power supply

• **TDA7468D (IC601)**  
**BLOCK DIAGRAM**

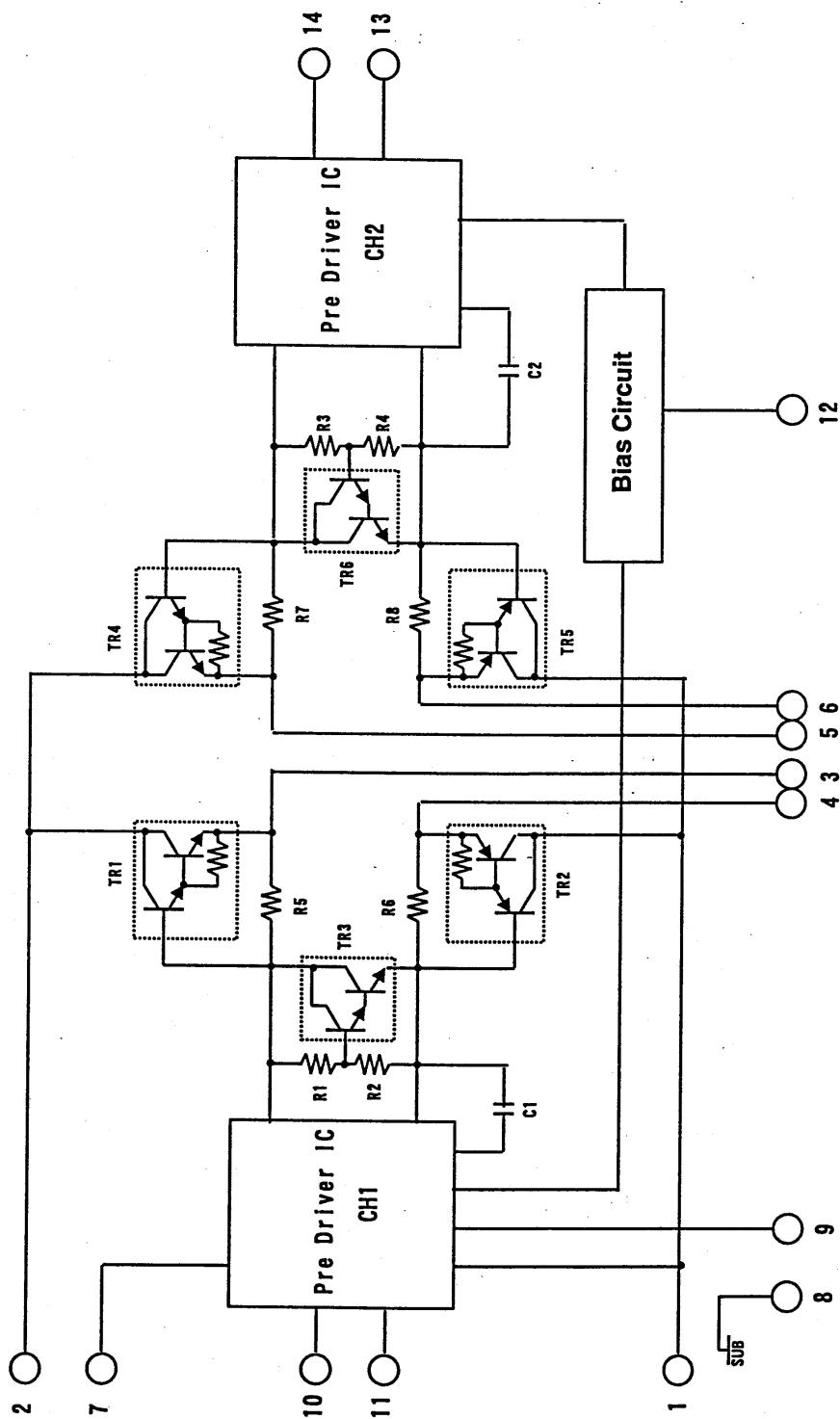


PIN CONFIGURATION

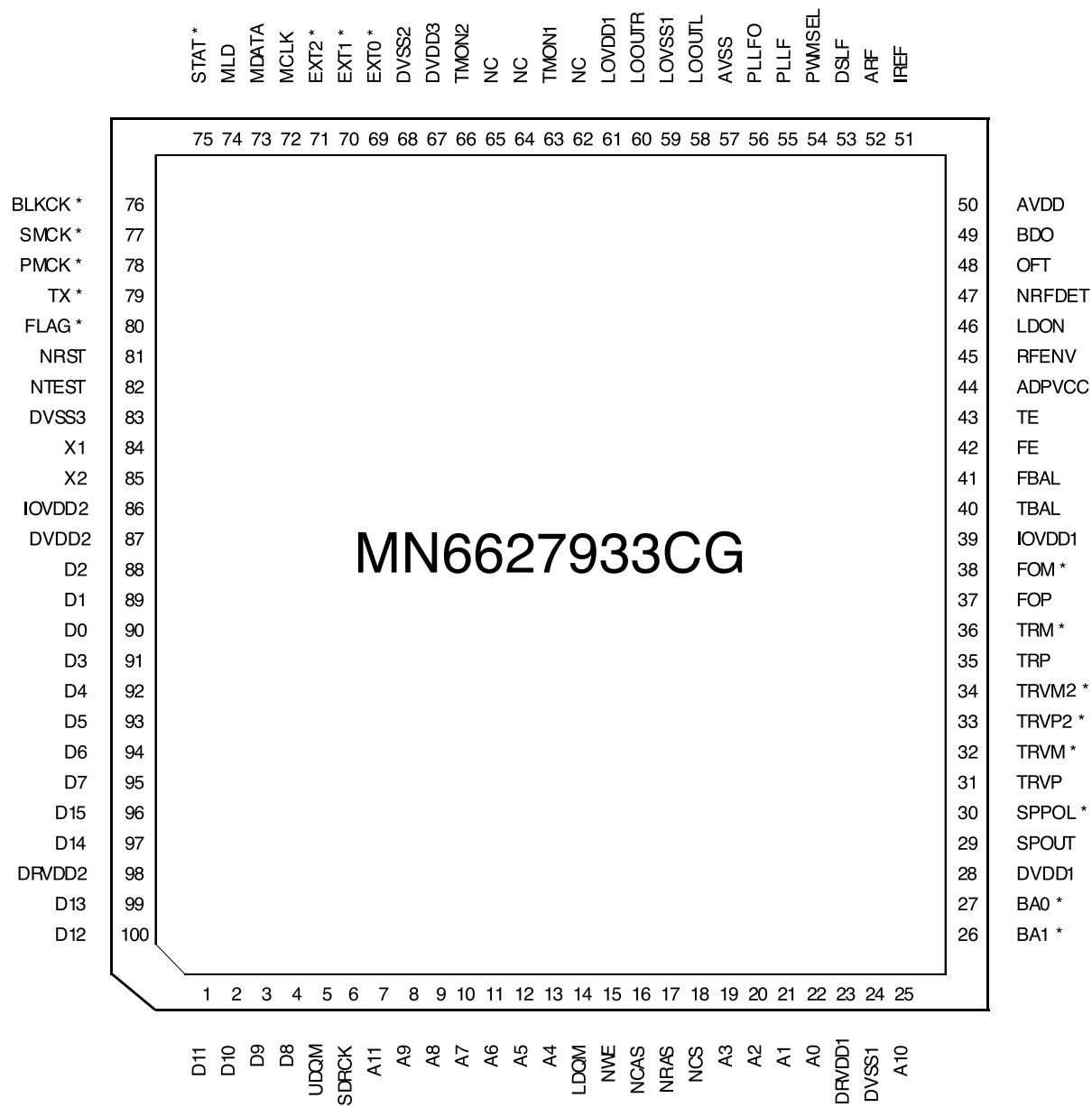




• STK403-070 (IC701)  
BLOCK DIAGRAM



• **N6627933CG (IC801)**  
**Pin Assignment**



**Note)** Pins marked with an asterisk can be switched to different signals by using microcontroller commands.

The block diagram illustrates the internal architecture of the TMS320C42 DSP, showing the flow of data and control signals between various functional blocks and external interfaces.

**Internal Components and Interconnections:**

- Timing and Control:** Includes a **TIMING GENERATOR** (receiving  $X_1$ ,  $X_2$ ,  $PMCK$ ,  $SMCK$ ) and a **MICRO COMPUTER INTERFACE** (receiving  $MDATA$ ,  $MCLK$ ,  $MLD$ ,  $STAT$ ).
- Frequency Synthesis:** A **DSL PLL VCO** block receives  $AREF$ ,  $IREF$ ,  $DSLF$ ,  $PLLF$ , and  $PLLFO$  signals.
- Core Processing:** The **EFM DEMODULATION SYNC INTERPOLATION CIRCECC CDROMECC** block is the central processing unit, containing a **CIRCRAM** sub-block. It interfaces with a **SUBCODE INTERFACE**, a **BUS CONTROL UNIT (BCU)**, and an **ADPCM** block.
- Input/Output and Conversion:**
  - A/D CONVERTER** and **INPUT PORT** receive external signals like  $ADPVCC$ ,  $FE$ ,  $TE$ ,  $RFENV$ ,  $OFT$ ,  $NRFDET$ , and  $BDO$ .
  - SERVO CPU** and **SPINDLE SERVO** are connected to the A/D converter and the core processing block.
  - MP3 DECODER** and **FS CONVERTER** interface with the core processing block.
  - SERIAL OUTPUT INTERFACE** handles digital data flow.
  - OUTPUT PORT** and **DIGITAL OUT** manage digital signals.
  - DIGITAL FILTER 1bit DAC PWM LOGIC** and **ANALOG LOWPASS FILTER** handle analog signal processing.
- Memory and Power:**
  - DRAM INTERFACE** connects to external DRAM via  $A11$ ,  $A0$ ,  $D15$ ,  $D0$ ,  $NCAS$ ,  $NRAS$ ,  $NWE$ ,  $NCS$ ,  $SDRCK$ ,  $BA0$ ,  $BA1$ ,  $UDQM$ , and  $LDQM$ .
  - REGULATOR** provides  $DVDD$  power to the system.

**External Interfaces:**

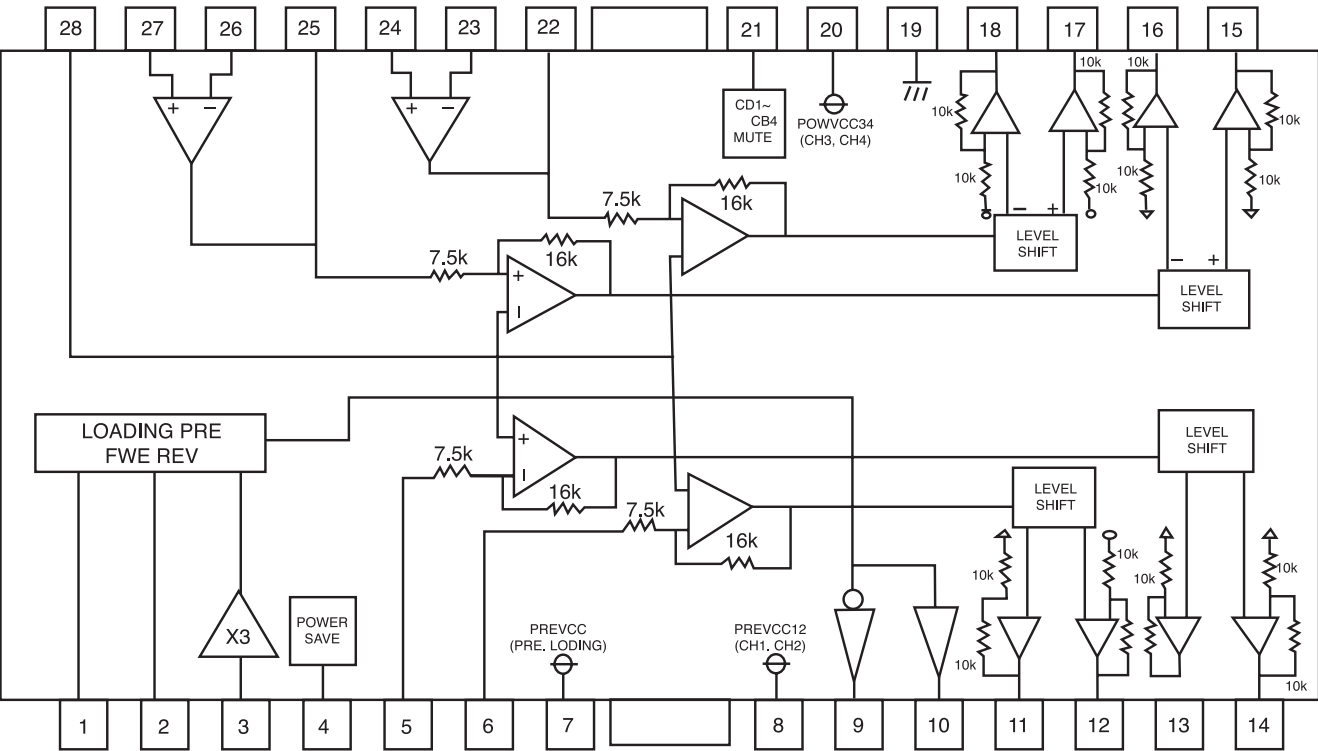
- Test and Reset:**  $NTEST$ ,  $NRST$
- Timing and Control:**  $PMCK$ ,  $SMCK$ ,  $X_1$ ,  $X_2$ ,  $STAT$ ,  $MDATA$ ,  $MCLK$ ,  $MLD$ ,  $AREF$ ,  $IREF$ ,  $DSLF$ ,  $PLLF$ ,  $PLLFO$ ,  $AVSS$ ,  $A DD$
- Subcode and Data:**  $TXTCK$ ,  $EXT1$ ,  $TXTD$ ,  $EXT0$ ,  $DQSY\_TXT$ ,  $EXT2$ ,  $SBCK$ ,  $EXT1$ ,  $SUBC$ ,  $EXT0$ ,  $TXNCLDCK$ ,  $EXT2$ ,  $FLAG$ ,  $BLKCK$
- Address and Data Buses:**  $A11$ ,  $A0$ ,  $D15$ ,  $D0$ ,  $NCAS$ ,  $NRAS$ ,  $NWE$ ,  $NCS$ ,  $SDRCK$ ,  $BA0$ ,  $BA1$ ,  $UDQM$ ,  $LDQM$
- Power and Ground:**  $DRVDD1$ ,  $DRVDD2$ ,  $LRCK$ ,  $EXT1$ ,  $BCLK$ ,  $EXT2$ ,  $SRDATA$ ,  $EXT0$
- Other Signals:**  $TX$ ,  $EXT0$ ,  $EXT1$ ,  $EXT2$ ,  $TMON1$ ,  $TMON2$ ,  $LOVSS1$ ,  $LOVDD1$ ,  $LOOUTL$ ,  $LOOUTR$ ,  $LOVDD2$ ,  $IOVDD1$ ,  $IOVDD2$ ,  $DVSS1$ ,  $DVSS2$ ,  $DVSS3$

## Pin Descriptions

Pin No.	Symbol	I/O	Function
1	D11	I/O	DRAM data signal I/O 11
2	D10	I/O	DRAM data signal I/O 10
3	D9	I/O	DRAM data signal I/O 9
4	D8	I/O	DRAM data signal I/O 8
5	UDQM	O	SDRAM upper byte data mask signal output
6	SDRCK	O	SDRAM clock signal output
7	A11	O	DRAM address signal output 11
8	A9	O	DRAM address signal output 9
9	A8	O	DRAM address signal output 8
10	A7	O	DRAM address signal output 7
11	A6	O	DRAM address signal output 6
12	A5	O	DRAM address signal output 5
13	A4	O	DRAM address signal output 4
14	LDQM	O	SDRAM lower byte data mask signal output
15	NWE	O	DRAM write enable signal output
16	NCAS	O	DRAM CAS control signal output
17	NRAS	O	DRAM RAS control signal output
18	NCS	O	SDRAM chip select signal output
19	A3	O	DRAM address signal output 3
20	A2	O	DRAM address signal output 2
21	A1	O	DRAM address signal output 1
22	A0	O	DRAM address signal output 0
23	DRVDD1	I	Power supply 1 for DRAM interface I/O
24	DVSS1	I	Ground 1 for digital circuits
25	A10	O	DRAM address signal output 10
26	*BA1	O	SDRAM bank selection signal output 1
27	*BA0	O	SDRAM bank selection signal output 0
28	DVDD1	I	Power supply 1 for internal digital circuits
29	SPOUT	O	Spindle drive signal output (absolute value)
30	*SPPOL	O	Spindle drive signal output (polarity)
31	TRVP	O	Traverse drive signal output (positive polarity)
32	*TRVM	O	Traverse drive signal output (negative polarity)
33	*TRVP2	O	Traverse drive signal output 2 (positive polarity)
34	*TRVM2	O	Traverse drive signal output 2 (negative polarity)
35	TRP	O	Tracking drive signal output (positive polarity)
36	*TRM	O	Tracking drive signal output (negative polarity)
37	FOP	O	Focus drive signal output (positive polarity)
38	*FOM	O	Focus drive signal output (negative polarity)
39	IOVDD1	I	Power supply 1 for digital I/O
40	TBAL	O	Tracking balance adjustment signal output
41	FBAL	O	Focus balance adjustment signal output
42	FE	I	Focus error signal input
43	TE	I	Tracking error signal input
44	ADPVCC	I	Voltage input for supply voltage monitor
45	RFENV	I	RF envelope signal input
46	LDON	O	Laser ON signal output
47	NRFDET	I	RF detectoion signal input
48	OFT	I	Off-track signal input
49	BDO	I	Dropout signal input
50	AVDD1	I	Power supply 1 for analog circuits
51	IREF	I	Analog reference current input
52	ARF	I	RF signal input
53	DSLIF	O	DSL loop filter pin
54	PWMSEL	I	PWM output mode selection input Low: Direct High: 3-state
55	PLLIF	O	PLL loop filter pin (for phase comparison)

Pin No.	Symbol	I/O	Function
56	PLLFO	O	PLL loop filter pin (for speed comparison)
57	AVSS1	I	Ground 1 for analog circuits
58	LOOUTL	O	L-ch audio output for line-out output
59	LOVSS1	I	Ground for line-out output
60	LOOUTR	O	R-ch audio output for line-out output
61	LOVDD1	I	Power supply for line-out output
62	N.C.	-	-
63	TMON1	O	Test monitor output 1
64	N.C.	-	-
65	N.C.	-	-
66	TMON2	O	Test monitor output 2
67	DVDD3	I	Power supply 3 for digital circuits
68	DVSS2	I	Ground 2 for digital circuits
69	*EXT0	I/O	Expansion I/O port 0
70	*EXT1	I/O	Expansion I/O port 1
71	*EXT2	I/O	Expansion I/O port 2
72	MCLK	I	Microcontroller command clock signal input
73	MDATA	I	Microcontroller command data signal input
74	MLD	I	Microcontroller command load signal input
75	*STAT	O	Status signal output
76	*BLKCK	O	Subcode block clock signal output
77	*SMCK	O	4.2336-/8.4672-MHz clock signal output
78	*PMCK	O	88.2-kHz clock signal output
79	*TX	O	Digital audio interface signal output
80	*FLAG	O	Flag signal output
81	NRST	I	LSI reset signal input
82	NTEST	I	Test mode setting input
83	DVSS3	I	Ground 3 for digital circuits
84	X1	I	Crystal oscillator circuit input
85	X2	O	Crystal oscillator circuit output
86	IOVDD2	I	Power supply 2 for digital I/O
87	DVDD2	I	Power supply 2 for internal digital circuits
88	D2	I/O	DRAM data signal I/O 2
89	D1	I/O	DRAM data signal I/O 1
90	D0	I/O	DRAM data signal I/O 0
91	D3	I/O	DRAM data signal I/O 3
92	D4	I/O	DRAM data signal I/O 4
93	D5	I/O	DRAM data signal I/O 5
94	D6	I/O	DRAM data signal I/O 6
95	D7	I/O	DRAM data signal I/O 7
96	D15	I/O	DRAM data signal I/O 15
97	D14	I/O	DRAM data signal I/O 14
98	DRVDD2	I	Power supply 2 for DRAM interface I/O
99	D13	I/O	DRAM data signal I/O 13
100	D12	I/O	DRAM data signal I/O 12

• BA5810FP (IC803)



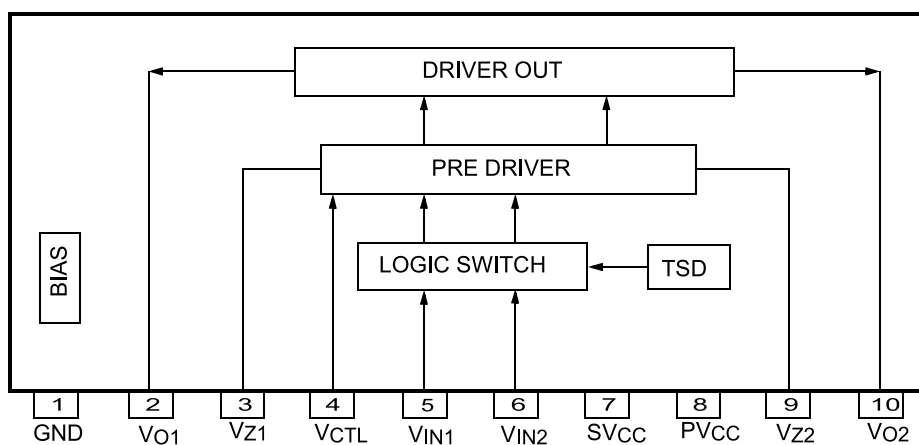
• KA3082 (IC 807)  
**Bi-Directional DC Motor Driver**  
**Description**

The KA3082 is a monolithic integrated circuit designed for driving bi-directional DC motor with braking and speed control, and it is suitable for the loading motor driver of VCR, CDP, and TOY systems. The speed control can be achieved by adjusting the external voltage of the speed control pin. It has two pins of logic inputs for controlling the forward/ reverse and braking.

**Pin Definitions**

Pin Number	Pin Name	I/O	Pin Function Description
1	GND	-	Ground
2	VO1	O	Output 1
3	VZ1	-	Phase Compensation
4	VCTL	I	Motor Speed Control
5	VIN1	I	Input 1
6	VIN2	I	Input 2
7	SVcc	-	Supply Voltage (Signal)
8	PVcc	-	Supply Voltage (Power)
9	VZ2	-	Phase Compensation
10	VO2	O	Output 2

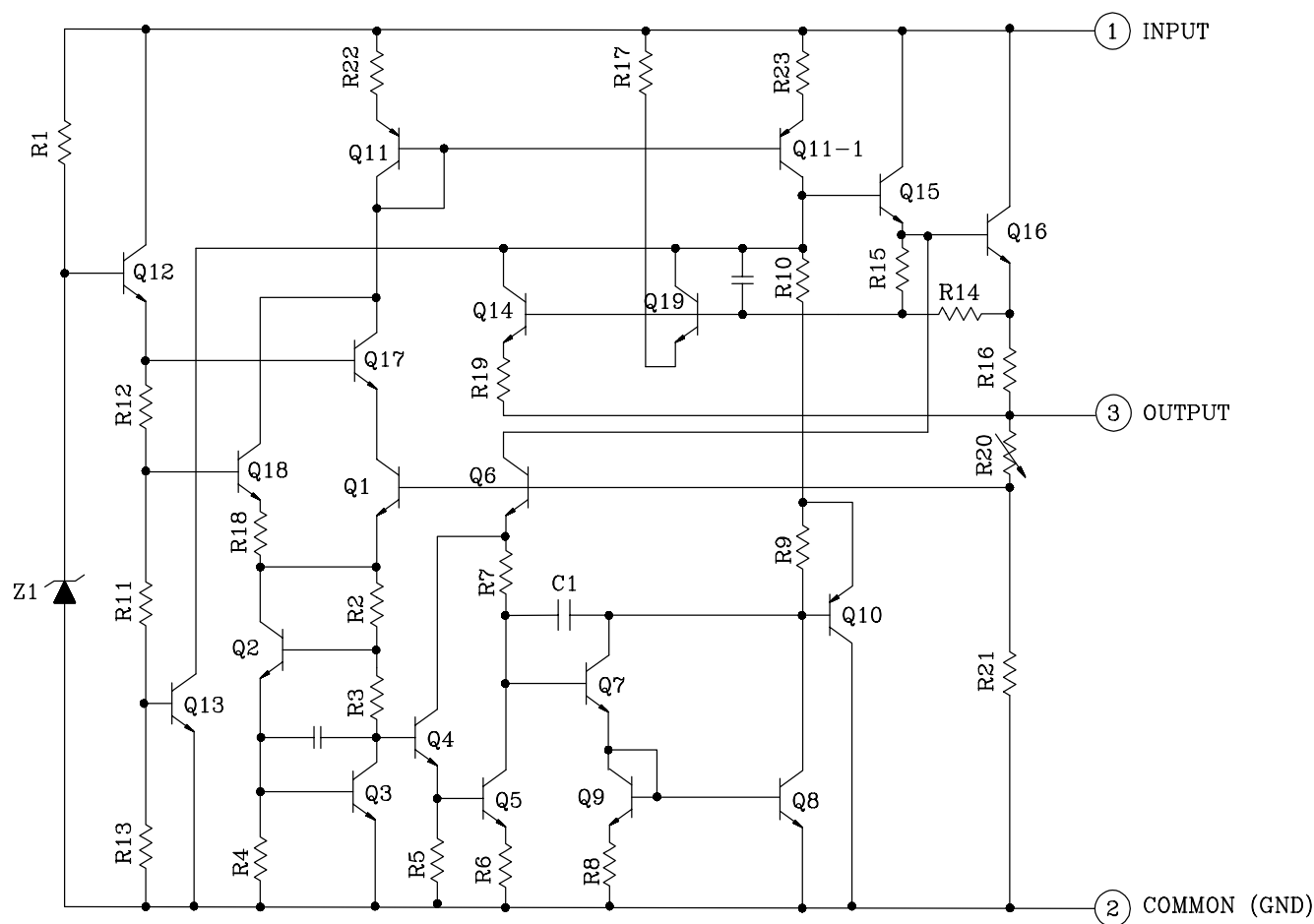
## Internal Block Diagram



## • KIA7805AP/API (IC 901)

THREE TERMINAL POSITIVE VOLTAGE REGULATORS 5V, 6V, 8V, 9V, 10V, 12, 15V, 18V, 24V.

### EQUIVALENT CIRCUIT



KIA7805AP/API

ELECTRICAL CHARACTERISTICS ( $V_{IN}=10V$ ,  $I_{OUT}=500mA$ ,  $0^{\circ}C \leq T_j \leq 125^{\circ}C$ )

CHARACTERISTIC	SYMBOL	TEST CIRCUIT	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Output Voltage	$V_{OUT}$	1	$T_j=25^{\circ}C$ , $I_{OUT}=100mA$		4.8	5.0	5.2	V
Input Regulation	Reg line	1	$T_j=25^{\circ}C$	$7.0V \leq V_{IN} \leq 25V$	-	3	100	mV
				$8.0V \leq V_{IN} \leq 12V$	-	1	50	
Load Regulation	Reg load	1	$T_j=25^{\circ}C$	$5mA \leq I_{OUT} \leq 1.4A$	-	15	100	mV
				$250mA \leq I_{OUT} \leq 750mA$	-	5	50	
Output Voltage	$V_{OUT}$	1	$7.0V \leq V_{IN} \leq 20V$ $5.0mA \leq I_{OUT} \leq 1.0A$ , $P_O \leq 15W$		4.75	-	5.25	V
Quiescent Current	$I_B$	1	$T_j=25^{\circ}C$ , $I_{OUT}=5mA$		-	4.2	8.0	mA
Quiescent Current Change	$\Delta I_B$	1	$7.0V \leq V_{IN} \leq 25V$		-	-	1.3	mA
Output Noise Voltage	$V_{NO}$	1	$T_a=25^{\circ}C$ , $10Hz \leq f \leq 100kHz$ $I_{OUT}=50mA$		-	50	-	$\mu V_{rms}$
Ripple Rejection Ratio	RR	1	$f=120Hz$ , $8.0V \leq V_{IN} \leq 18V$ , $I_{OUT}=50mA$ , $T_j=25^{\circ}C$		62	78	-	dB
Dropout Voltage	$V_D$	1	$I_{OUT}=1.0A$ , $T_j=25^{\circ}C$		-	2.0	-	V
Short Circuit Current Limit	$I_{SC}$	1	$T_j=25^{\circ}C$		-	1.6	-	A
Average Temperature Coefficient of Output Voltage	$TC_{VO}$	1	$I_{OUT}=5mA$ , $0^{\circ}C \leq T_j \leq 125^{\circ}C$		-	-0.6	-	mV/ $^{\circ}C$



• **KIA78R12PI (IC 903)**  
**4 TERMINAL LOW DROP VOLTAGE REGULATOR**

The KIA78RXX Series are Low Drop Voltage Regulator suitable for various electronic equipments. It provides constant voltage power source with TO-220 4 terminal lead full molded PKG. The Regulator has multi function such as over current protection, overheat protection and ON/OFF control.

ELECTRICAL CHARACTERISTICS  
(Unless otherwise specified, I<sub>O</sub>=0.5A, Ta=25℃, Note1.)

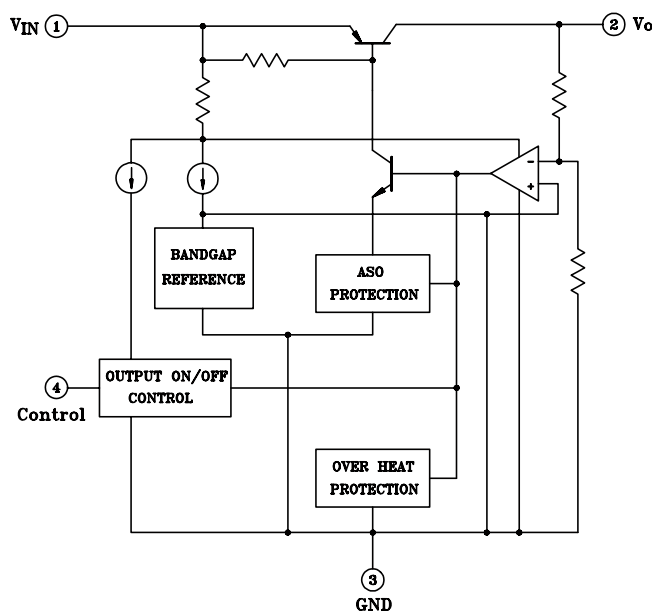
CHARACTERISTIC		SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNIT
Output Voltage	KIA78R05	V <sub>O</sub>	-	4.88	5.0	5.12	V
	KIA78R06		-	5.85	6.0	6.15	
	KIA78R08		-	7.80	8.0	8.2	
	KIA78R09		-	8.78	9.0	9.22	
	KIA78R10		-	9.75	10.0	10.25	
	KIA78R12		-	11.70	12.0	12.30	
	KIA78R15		-	14.70	15.0	15.30	
Load Regulation		Reg Load	I <sub>O</sub> =5mA~1A	-	0.1	2.0	%
Line Regulation		Reg Line	(Note 2)	-	0.5	2.5	%
Ripple Rejection		R•R		45	55	-	dB
Drop Out Voltage		V <sub>D</sub>	(Note 3)	-	-	0.5	V
Output ON state for control Voltage		V <sub>C(ON)</sub>		2.0	-	-	V
Output ON state for control Current		I <sub>C(ON)</sub>	V <sub>C</sub> =2.7V	-	-	20	μA
Output OFF state for control Voltage		V <sub>C(OFF)</sub>	-	-	-	0.8	V
Output OFF state for control Current		I <sub>C(OFF)</sub>	V <sub>C</sub> =0.4V	-	-	-0.4	mA
Quiescent Current		I <sub>Q</sub>	I <sub>O</sub> =0	-	-	10	mA

Note1) V<sub>IN</sub> of KIA78R05=7V  
" KIA78R06=8V  
" KIA78R08=10V  
" KIA78R09=15V  
" KIA78R10=16V  
" KIA78R12=18V  
" KIA78R15=21V

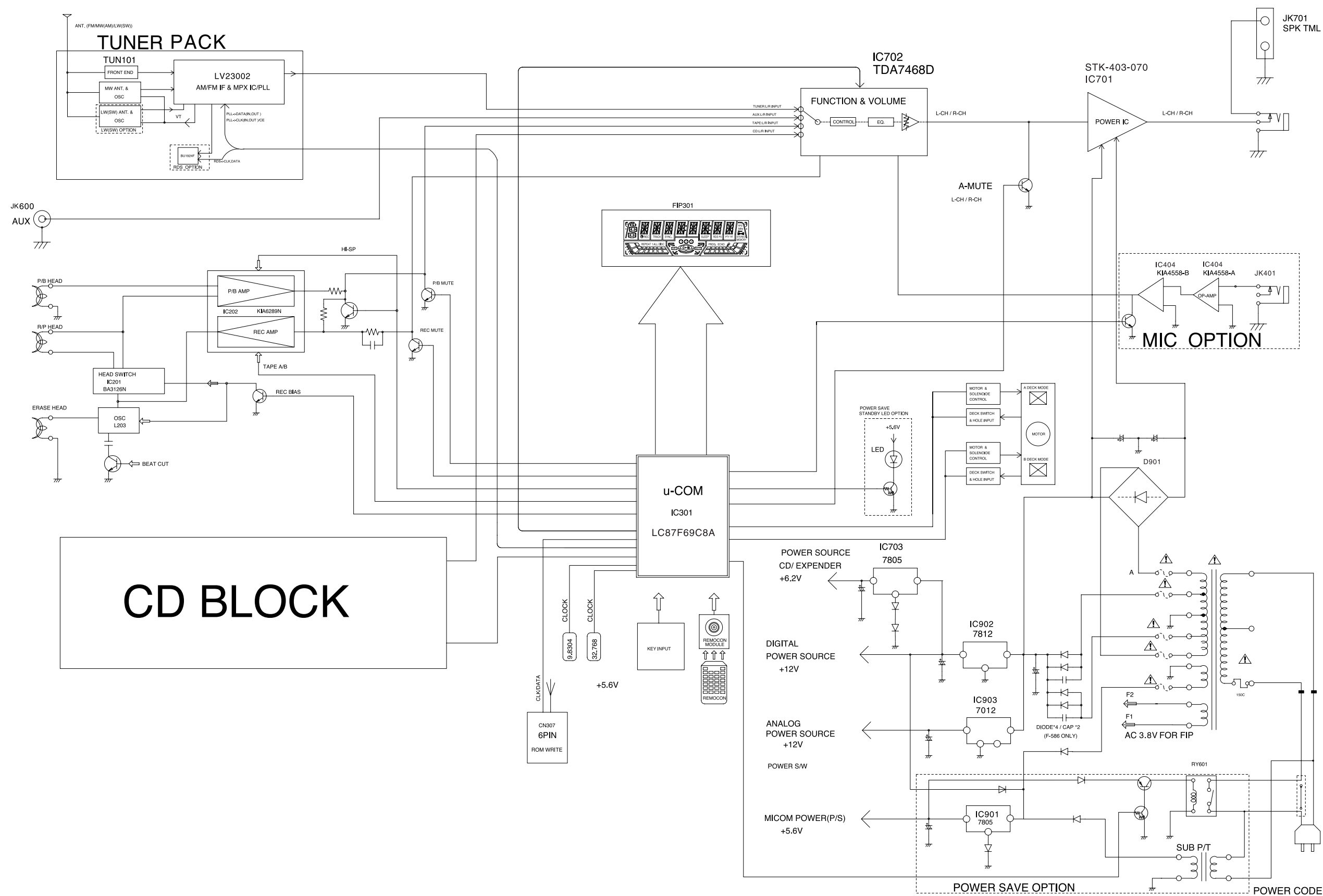
Note2) V<sub>IN</sub> of KIA78R05=6~12V  
" KIA78R06=7~15V  
" KIA78R08=9~25V  
" KIA78R09=10~25V  
" KIA78R10=11~26V  
" KIA78R12=13~29V  
" KIA78R15=16~32V

Note3) At V<sub>IN</sub>=0.95V<sub>O</sub>

**Block Diagram**

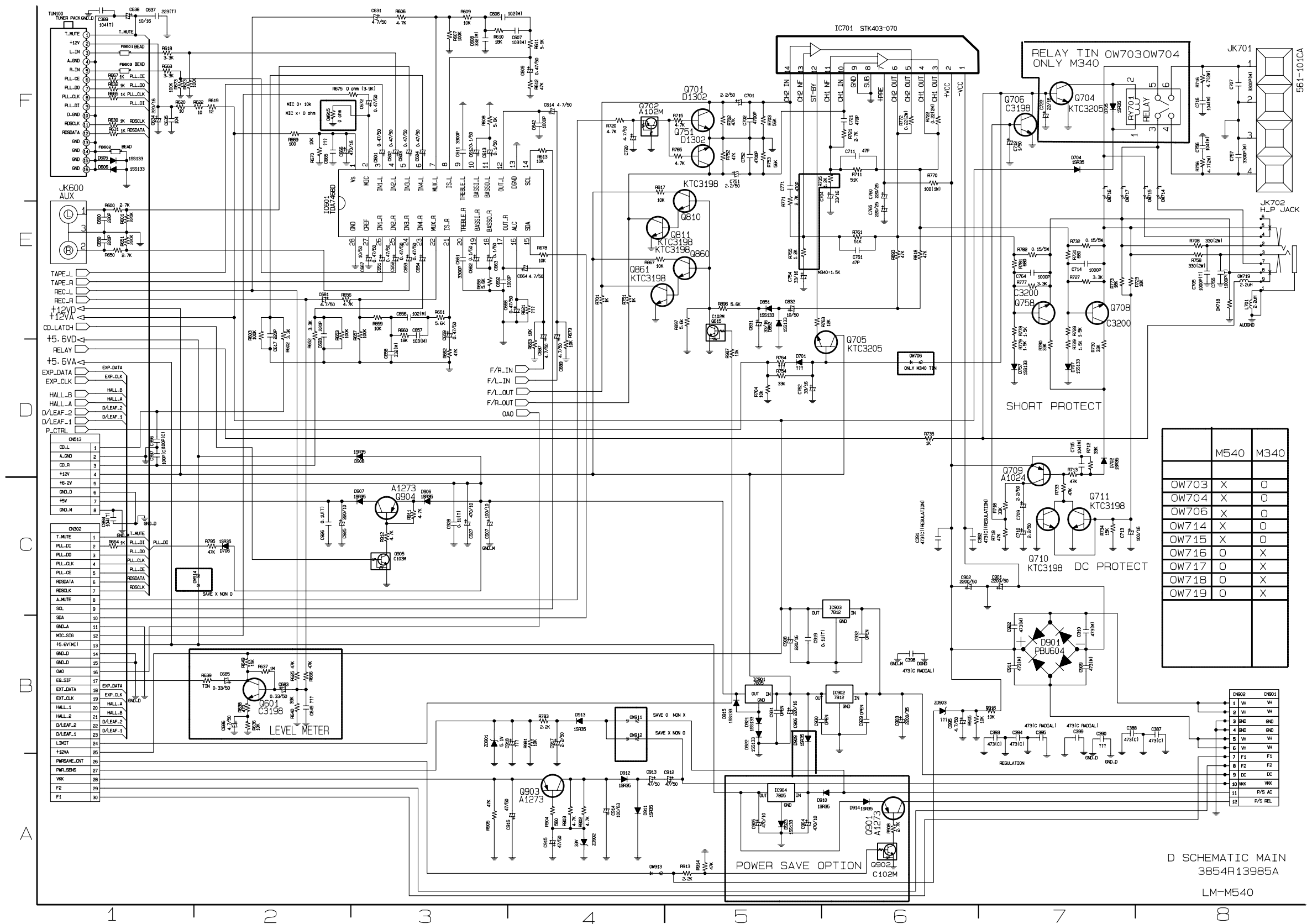


BLOCK DIAGRAM

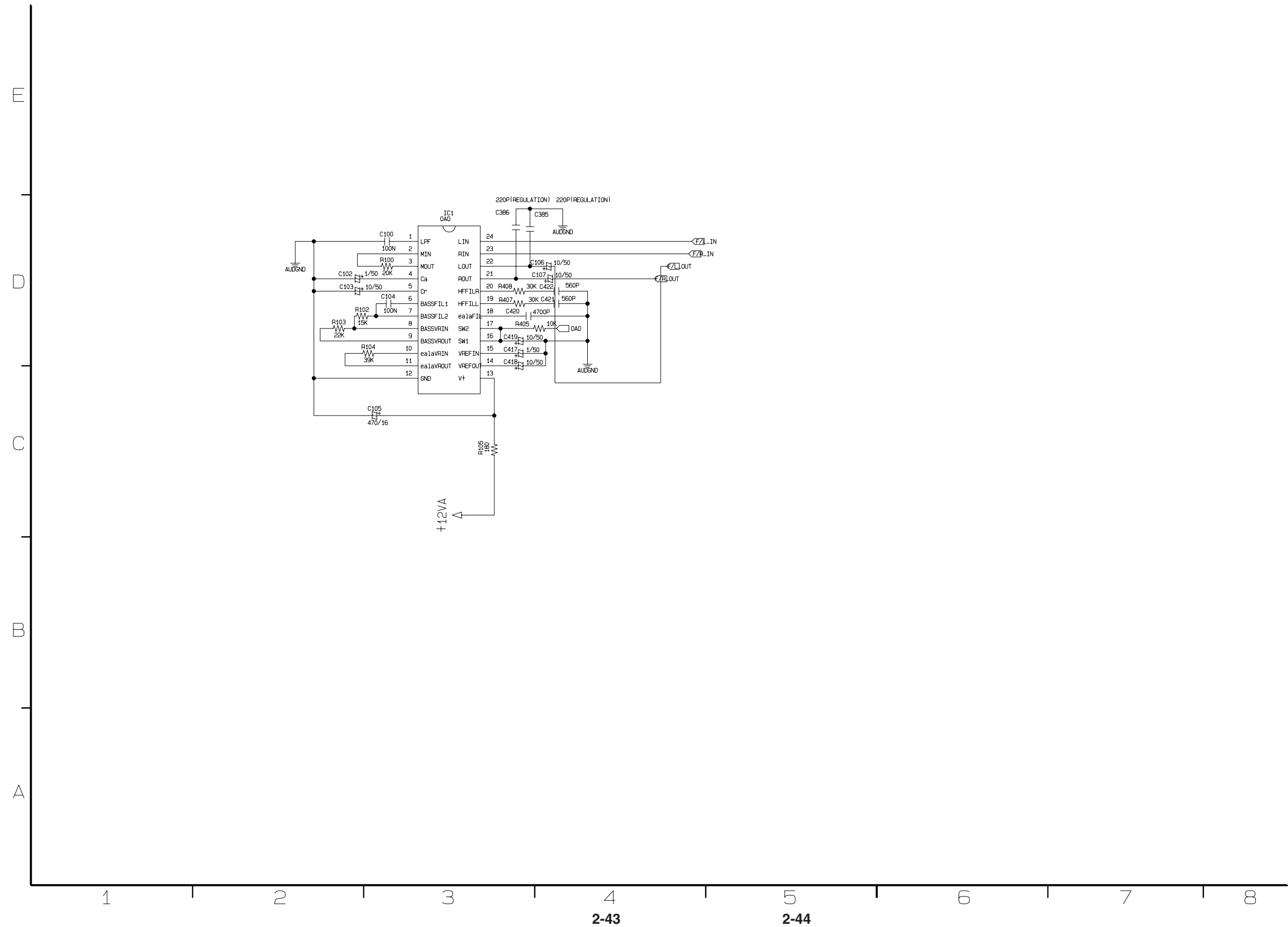


# SCHEMATIC DIAGRAMS

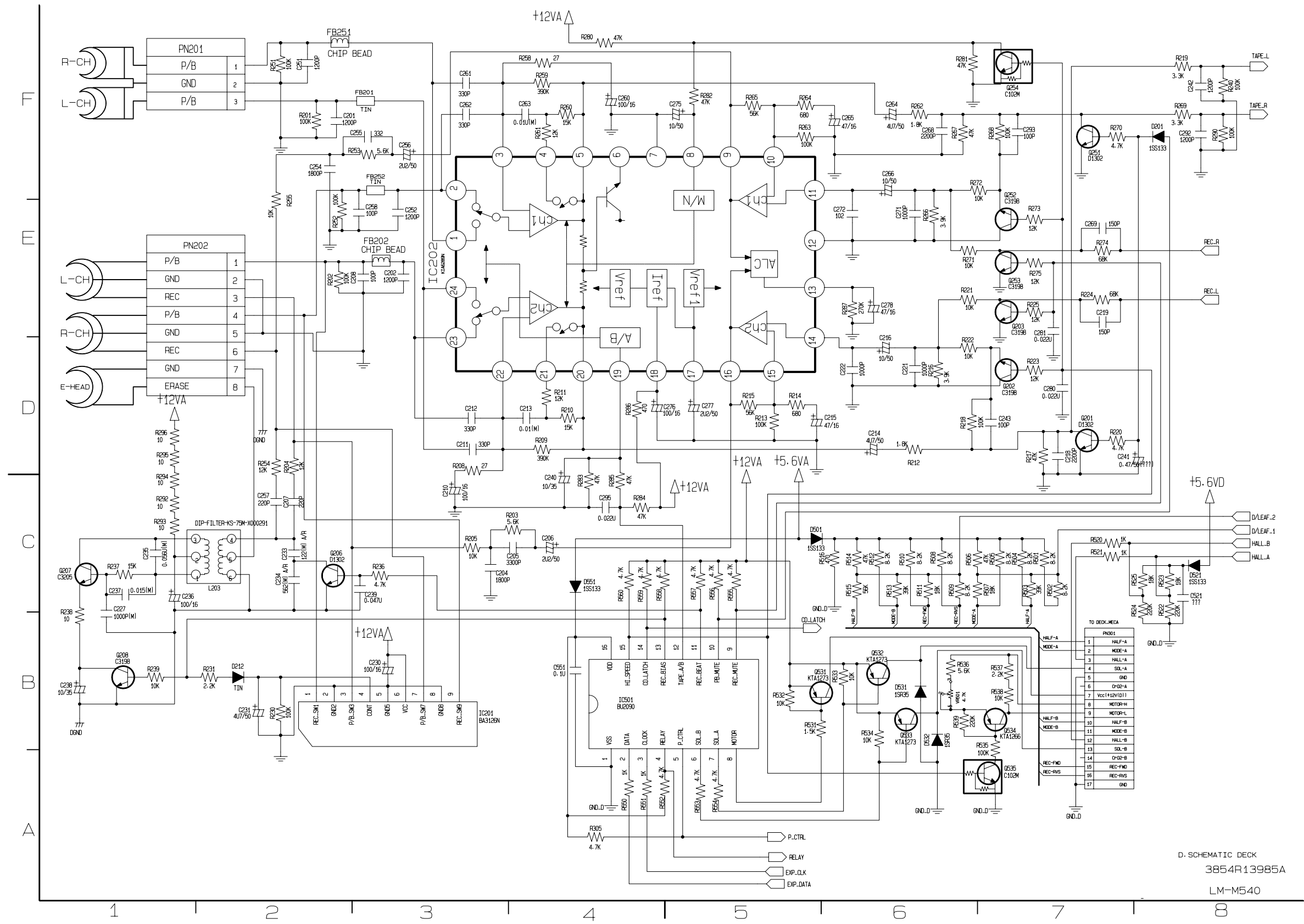
## MAIN SCHEMATIC DIAGRAM



- **MAIN-OAO SCHEMATIC DIAGRAM**

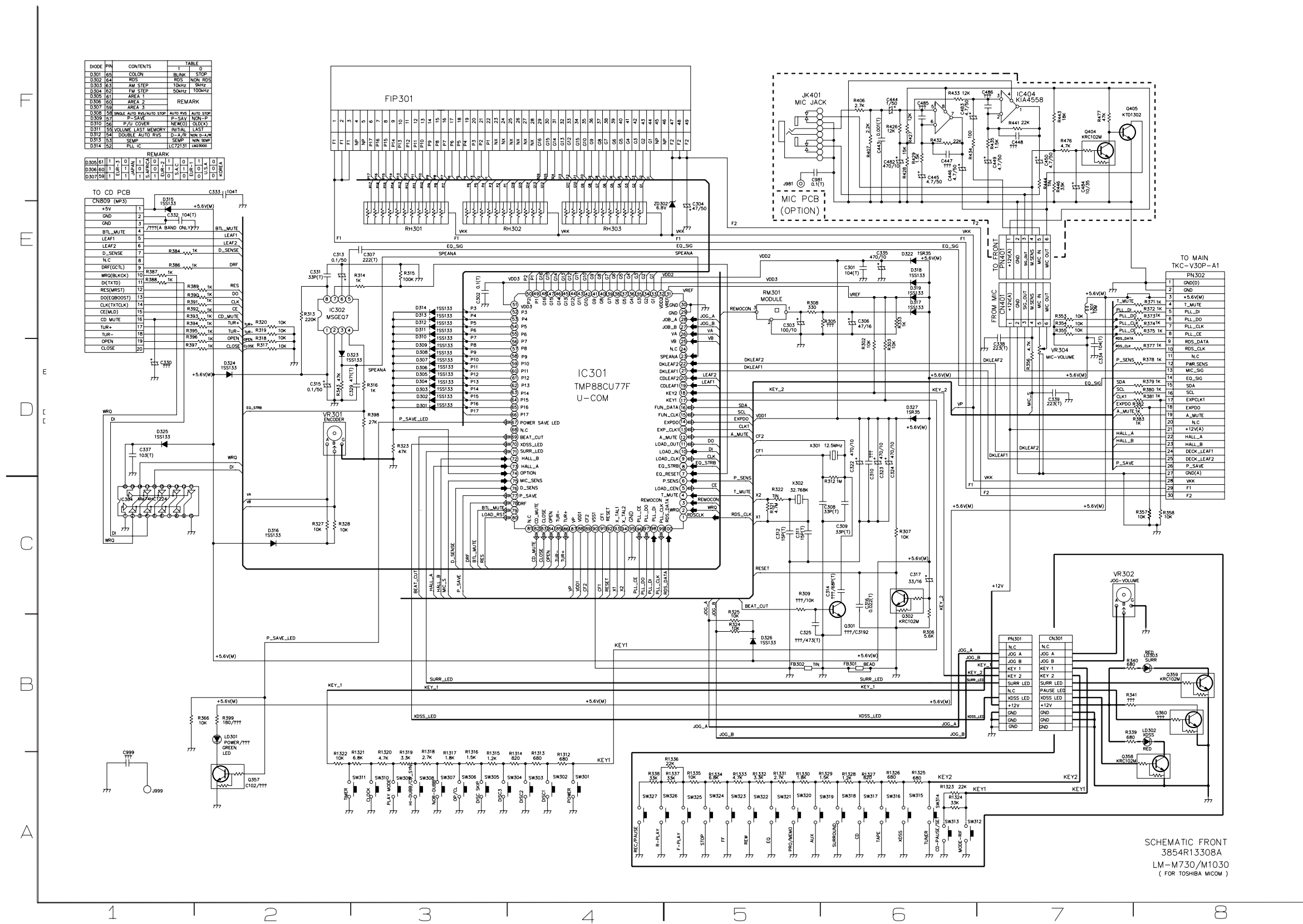


• DECK SCHEMATIC DIAGRAM



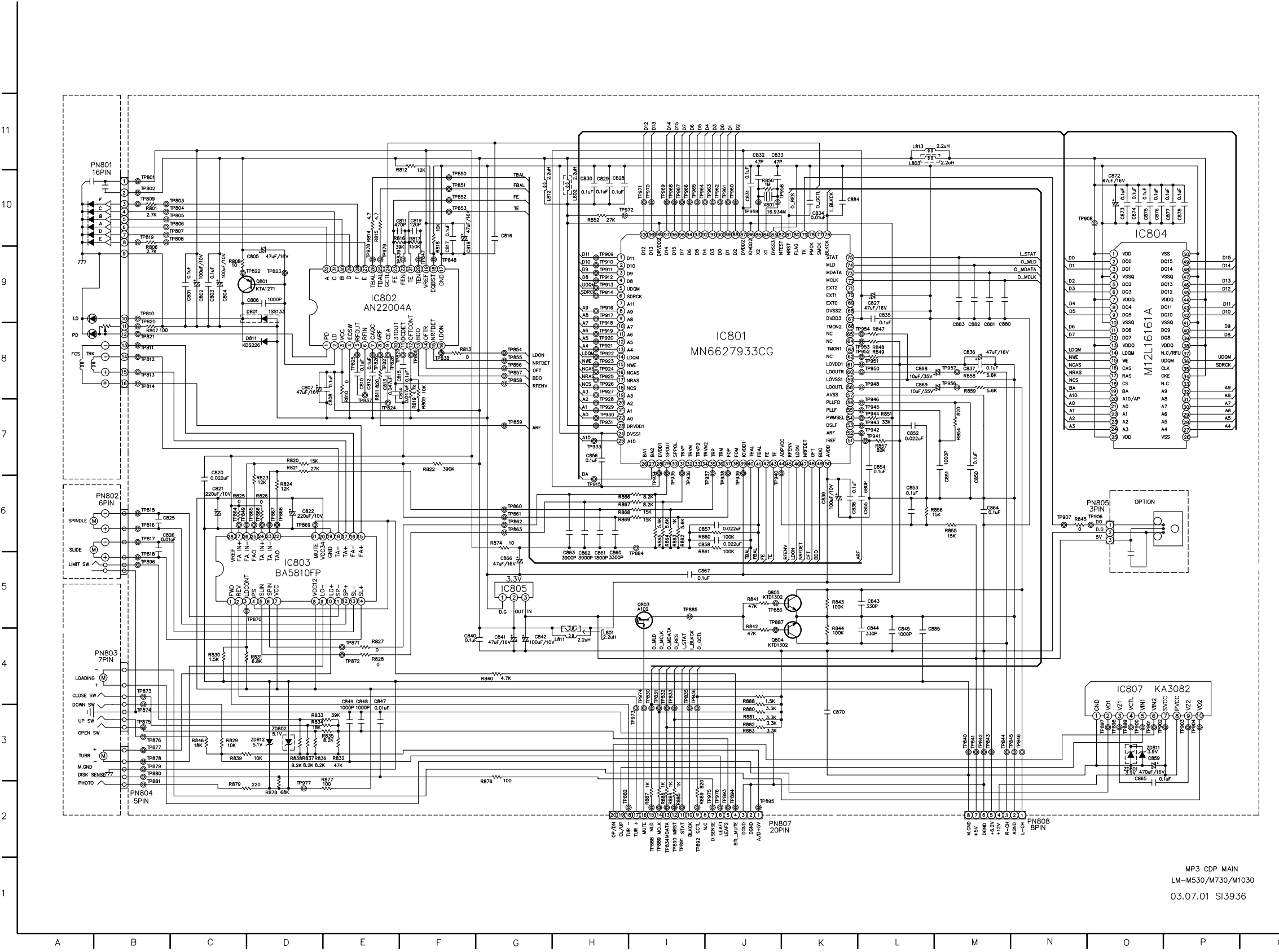
D. SCHEMATIC DECK  
3854R13985A  
LM-M540

• FRONT SCHEMATIC DIAGRAM





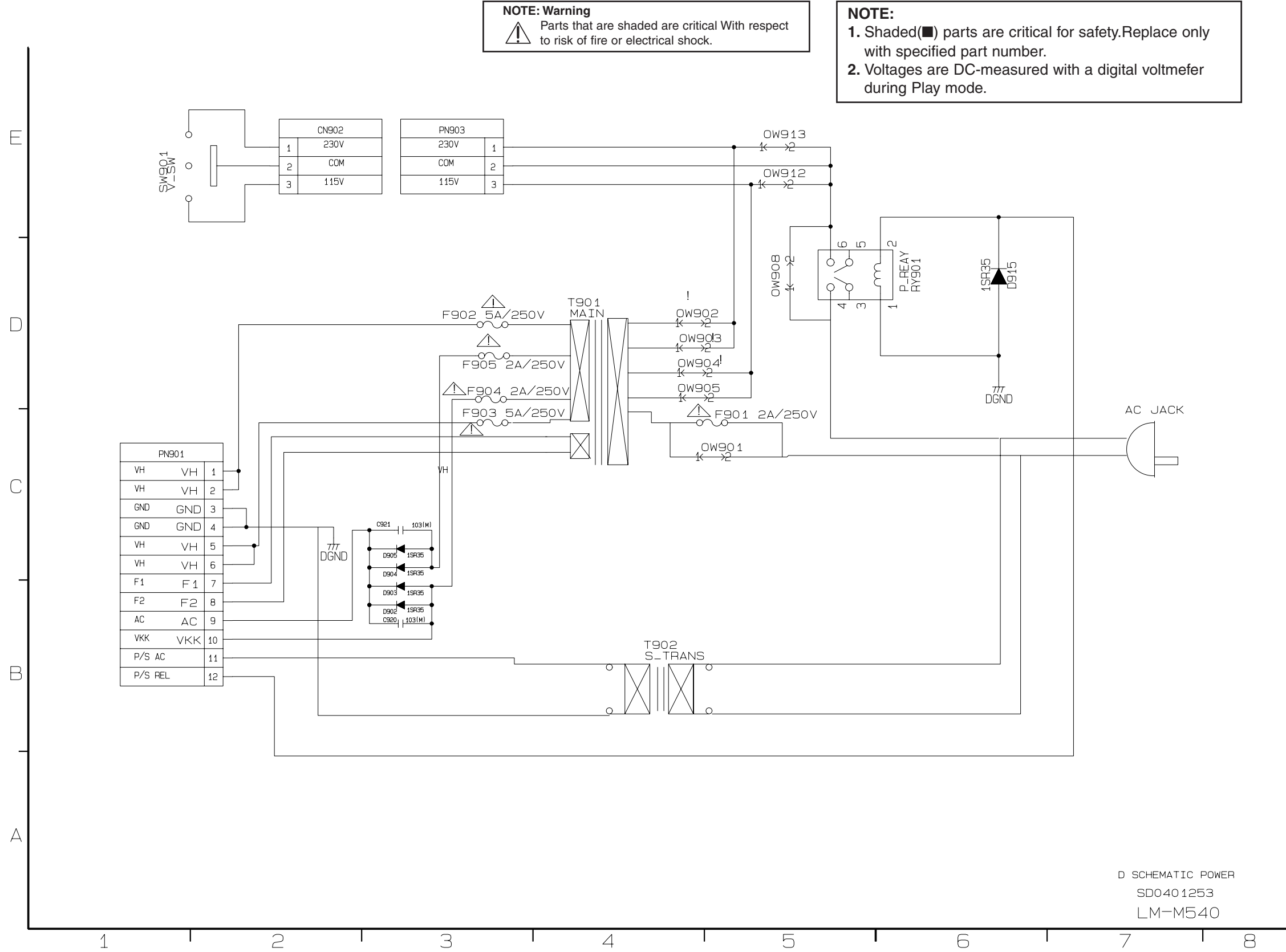
• CDP SCHEMATIC DIAGRAM



LOCATION GUIDE							
C801	C9	R810	E7	TP828	F8	TP930	H7
C802	C9	R811	F7	TP829	F8	TP931	H7
C803	C9	R812	F10	TP830	I4	TP933	H7
C804	D9	R813	G8	TP831	I4	TP934	H7
C805	D9	R814	E10	TP832	I4	TP935	I6
C806	D9	R815	F10	TP833	I4	TP936	J6
C807	E8	R816	F10	TP834	I2	TP937	J6
C808	E7	R817	F10	TP835	J4	TP938	J6
C810	E8	R818	F9	TP836	J4	TP939	J6
C811	F10	R819	F7	TP837	E7	TP940	K6
C812	E8	R820	D7	TP838	F8	TP941	L7
C813	F8	R821	D7	TP839	F9	TP942	L7
C814	F8	R822	F7	TP840	M3	TP943	L7
C815	F8	R823	D6	TP841	M3	TP944	L7
C816	G10	R824	D6	TP842	M3	TP945	L7
C817	F9	R825	D6	TP843	N3	TP946	L7
C818	G9	R826	D6	TP844	N3	TP948	L8
C819	F10	R827	E4	TP845	N3	TP950	L8
C820	C7	R828	E4	TP846	N3	TP951	L8
C821	C6	R829	D3	TP847	F9	TP952	L8
C822	E6	R830	C4	TP848	F9	TP953	L8
C825	C6	R831	D4	TP849	D6	TP954	L8
C826	C6	R832	E3	TP850	F10	TP956	M8
C827	L9	R833	E3	TP851	F10	TP957	M8
C828	I10	R834	E3	TP852	F10	TP958	K10
C829	H10	R835	E3	TP853	F10	TP959	J10
C830	H10	R836	E3	TP854	G8	TP960	J10
C831	J10	R837	E3	TP855	G8	TP961	J10
C832	J11	R838	D3	TP856	G8	TP962	J10
C833	K11	R839	D3	TP857	G8	TP963	J10
C834	K10	R840	G4	TP858	G8	TP964	J10
C835	L9	R841	J5	TP859	G7	TP965	J10
C836	M8	R842	J5	TP860	G6	TP966	J10
C837	M8	R843	K5	TP861	G6	TP967	I10
C838	L6	R844	K4	TP862	G6	TP968	I10
C839	K6	R845	O6	TP863	G6	TP969	I10
C840	G4	R846	C3	TP864	D6	TP970	I10
C841	G4	R847	L8	TP865	D6	TP971	I10
C842	H4	R848	L8	TP866	D6	TP972	I10
C843	L5	R849	L8	TP867	D6	TP973	I3
C844	L4	R850	K10	TP868	D6	TP974	I4
C845	L4	R851	L7	TP869	D6	TP975	J2
C847	E4	R852	H10	TP870	D5	TP976	J2
C848	E4	R854	M7	TP871	E4	TP977	D2
C849	E4	R855	M6	TP872	E4	TP978	E9
C850	M6	R856	M6	TP873	B4	TP979	F9
C851	M6	R857	L7	TP874	B3	UDQM	H9
C852	L7	R858	M8	TP875	B3	UDQM	Q8
C853	L6	R859	M8	TP876	C3	X801	K10
C854	L7	R860	J6	TP877	C3	ZD801	O3
C855	L6	R861	J5	TP878	C3	ZD802	D3
C856	H7	R862	J6	TP879	C3	ZD811	P3
C857	J6	R863	I6	TP880	C2	ZD812	D3
C858	J6	R864	I6	TP881	C2		
C859	P3	R865	I6	TP882	I2		
C860	I5	R866	I6	TP884	I5		
C861	H5	R867	I6	TP885	J5		
C862	H5	R868	I6	TP886	K5		
C863	H5	R869	I6	TP887	K5		
C864	M6	R874	G6	TP888	I2		
C865	O3	R876	G2	TP889	I2		
C866	G5	R877	E2	TP890	I2		
C867	J5	R878	D2	TP891	J2		
C868	M8	R879	D2	TP892	J2		
C869	M8	R880	J3	TP893	J2		
C870	K3	R881	J3	TP894	J2		
C872	O10	R882	J3	TP895	K2		
C873	O10	R883	J3	TP896	B5		
C874	O10	R884	I2	TP897	O3		
C875	P10	R885	I2	TP898	O3		
C876	P10	R886	I2	TP899	O3		
C877	P10	R887	I2	TP900	O3		
C878	P10	R888	J4	TP901	P3		
C880	N8	R889	J2	TP902	P3		
C881	M8	TP801	B10	TP903	P3		
C882	M8	TP802	B10	TP904	P3		
C883	M8	TP803	C10	TP905	F8		
C884	L10	TP804	C10	TP906	O6		
C885	M4	TP805	C10	TP907	N6		
IC801	J8	TP806	C10	TP908	O10		
IC802	E9	TP807	C10	TP909	H9		
IC803	D5	TP808	C10	TP910	H9		
IC804	O10	TP809	B10	TP911	H9		
IC805	G5	TP810	B9	TP912	H9		
IC807	O4	TP811	B8	TP913	H9		
PN801	B11	TP812	B8	TP914	H9		
PN802	B6	TP813	B8	TP915	H6		
PN803	B4	TP814	B8	TP916	H9		
PN804	B2	TP815	B6	TP917	H9		
PN805	O6	TP816	B6	TP918	H8		
PN807	K2	TP817	B6	TP919	H8		
PN808	N2	TP818	B5	TP920	H8		
Q801	D9	TP819	B10	TP921	H8		
Q803	I5	TP820	B8	TP922	H8		
Q804	K4	TP821	B8	TP923	H8		
Q805	K5	TP822	D9	TP924	H8		
R801	B10	TP823	D9	TP925	H8		
R806	B9	TP824	F7	TP926	H8		
R807	B8	TP825	E8	TP927	H8		
R808	D9	TP826	F8	TP928	H7		
R809	F7	TP827	F8	TP929	H7		

MP3 CDP MAIN  
LM-M530/M730/M1030  
03.07.01 SI3936

• POWER SCHEMATIC DIAGRAM

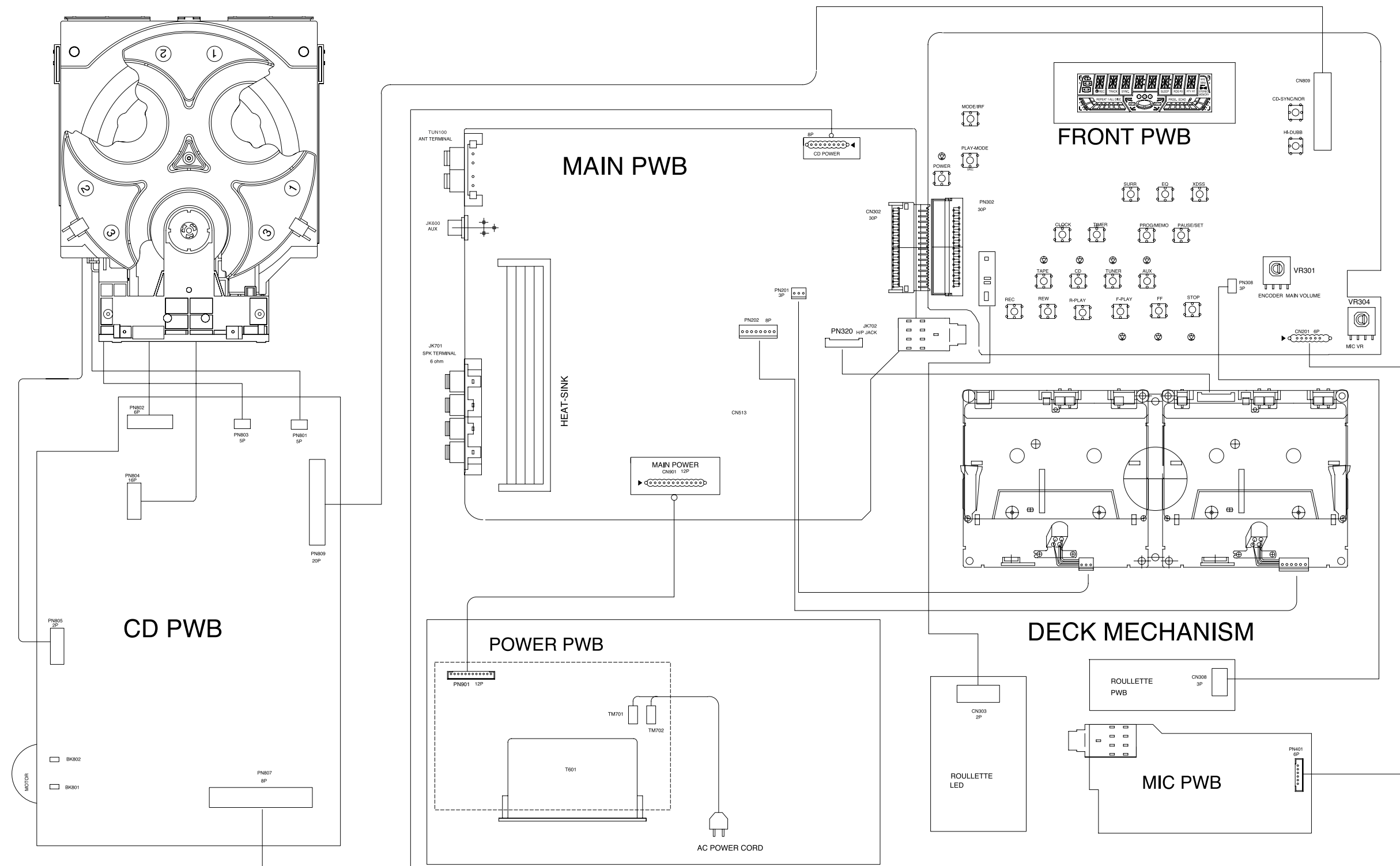




❏ WIRING DIAGRAM

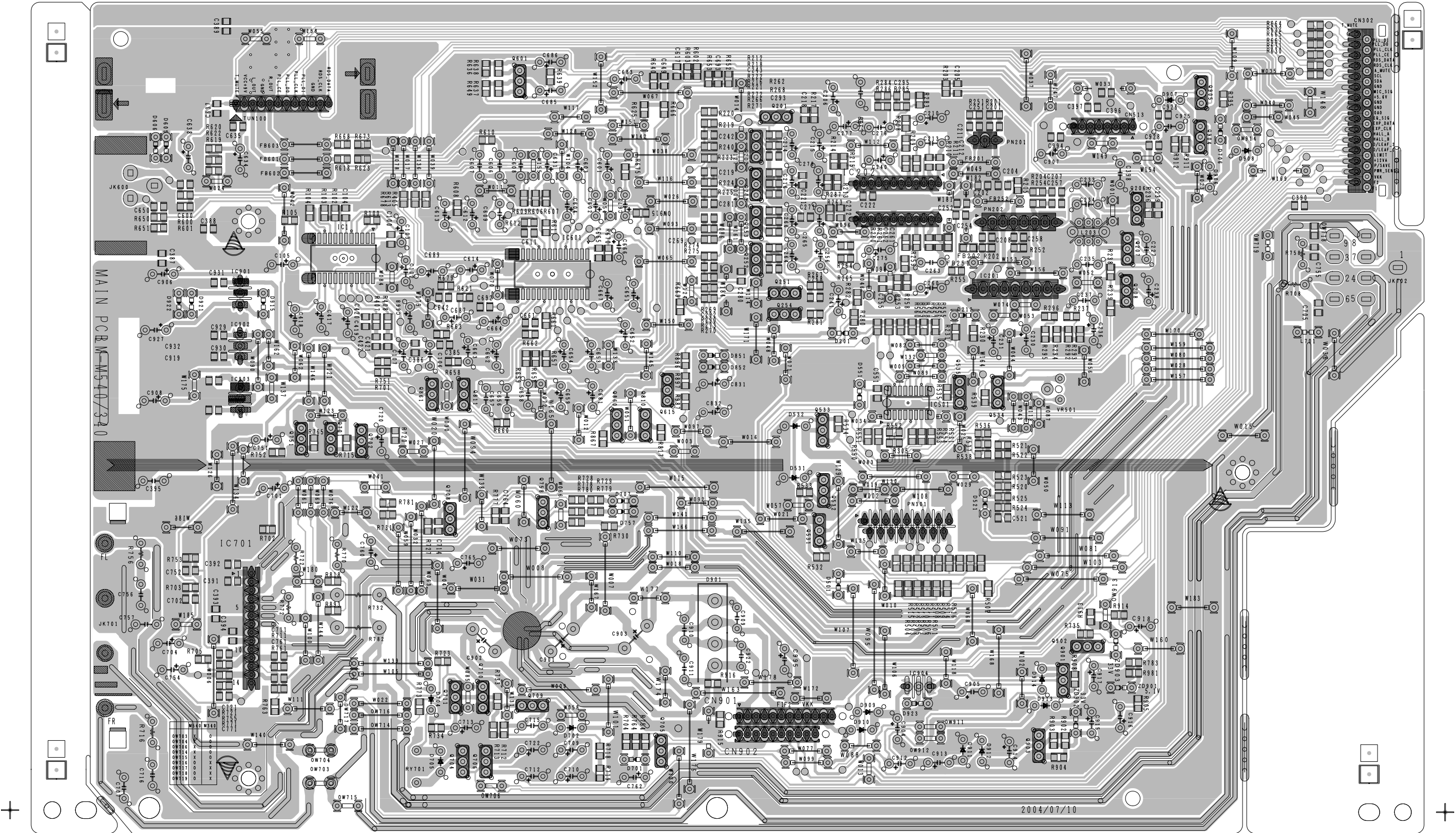
3CD CHANGER MECHANISM ASSY

M340/540 WIRING DIAGRAM



PRINTED CIRCUIT DIAGRAMS

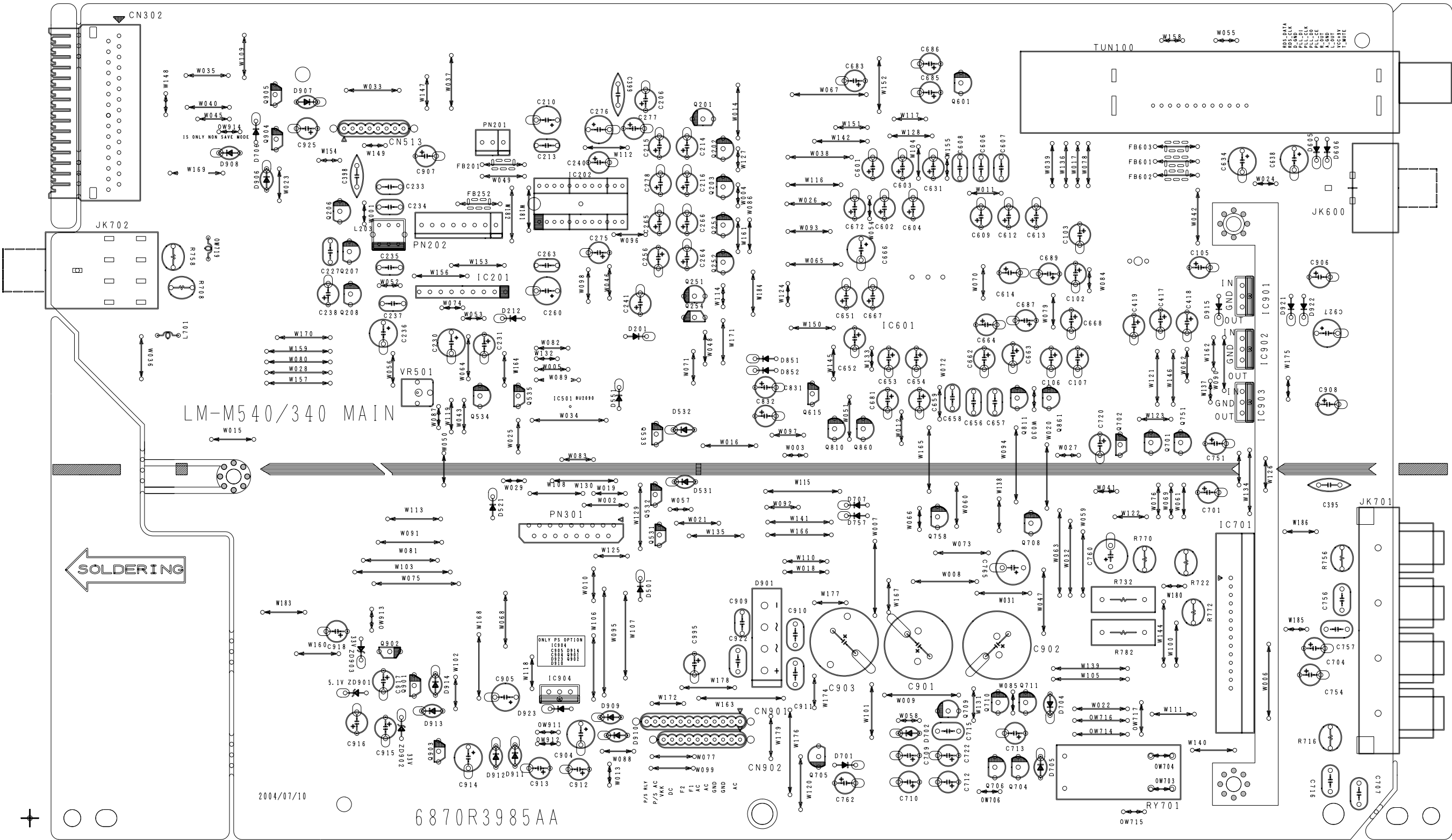
MAIN P.C. BOARD (SOLDER SIDE)



2004/07/10

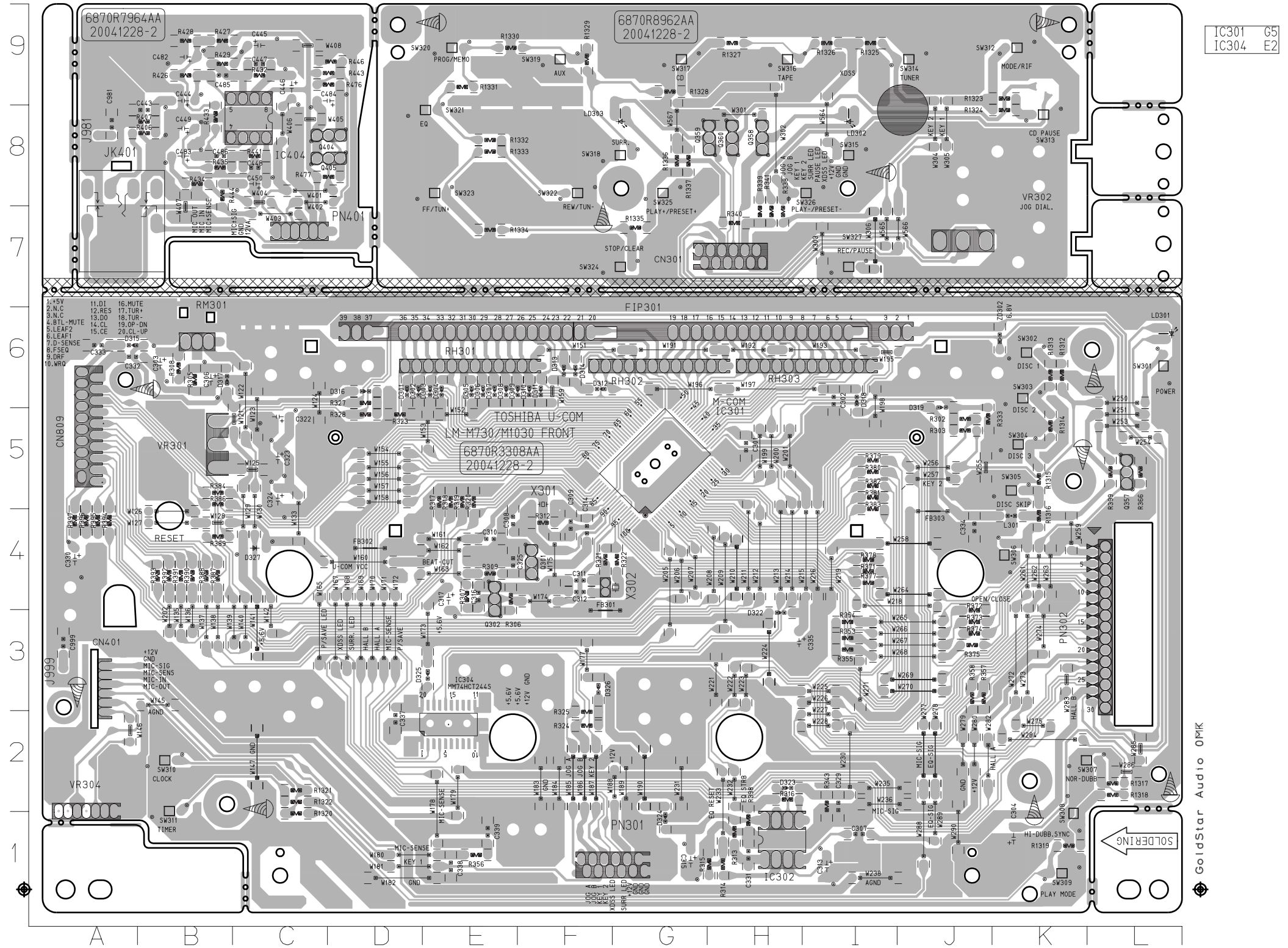
BOT BOTTOM+SEK

• MAIN P.C. BOARD (COMPONENT SIDE)

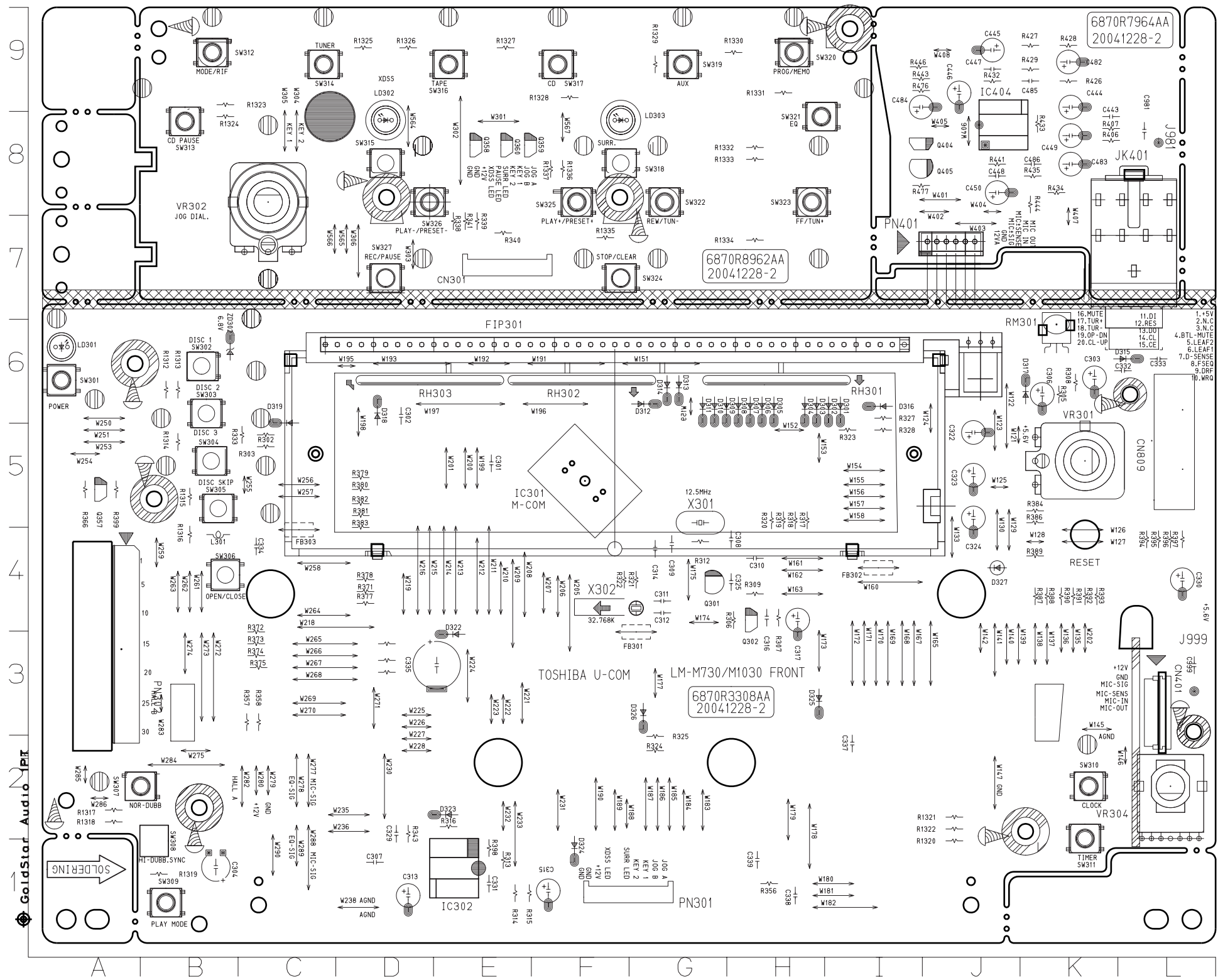




• **POWER P.C. BOARD (SOLDER SIDE)**



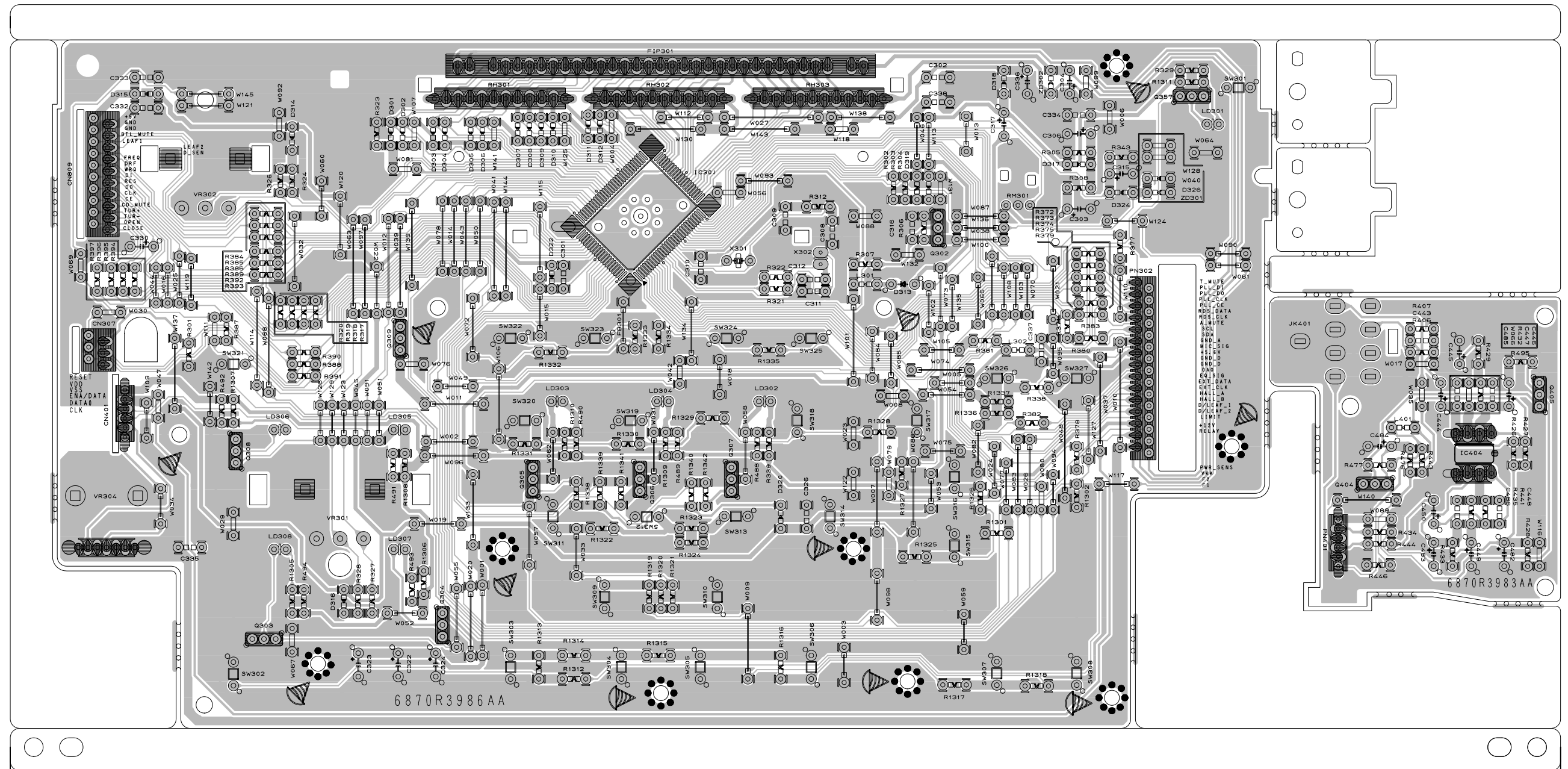
• POWER P.C. BOARD (COMPONENT SIDE)



C301	E5	D313	G6	R1335	F7	R394	L4
C302	D6	D314	G6	R1336	F8	R395	L4
C303	K6	D315	L6	R1337	F8	R396	L4
C304	B1	D316	I6	R302	C5	R397	L4
C306	K6	D317	K6	R303	C5	R398	E1
C307	D1	D318	D6	R305	K6	R399	A5
C308	H4	D319	C5	R306	H4	R406	K8
C309	G4	D322	E3	R307	H4	R407	K8
C310	H4	D323	E2	R308	K6	R426	K9
C311	G4	D324	F1	R309	H4	R427	K9
C312	G4	D325	H3	R312	G4	R428	K9
C313	D1	D326	G3	R313	E1	R429	K9
C314	G4	D327	J4	R314	E1	R432	J9
C315	F1	FB301	G3	R315	E1	R433	K8
C316	H4	FB302	I4	R316	E2	R434	K8
C317	H4	FB303	C4	R317	H5	R435	K8
C322	J5	FIP301	F6	R318	H5	R441	J8
C323	J5	IC302	E1	R319	H5	R443	I9
C324	J5	IC404	J8	R320	H5	R444	K8
C325	H4	J981	L8	R321	G4	R446	I9
C329	D2	J999	L3	R322	F4	R476	I9
C330	L4	JK401	L7	R323	I5	R477	I8
C331	E1	L301	B4	R324	G2	RH301	G6
C332	L6	LD301	A6	R325	G2	RH302	E6
C333	L6	LD302	D8	R327	I6	RH303	D6
C334	C4	LD303	F8	R328	I5	RM301	K6
C335	E3	PN301	A1	R333	C5	SW301	A6
C337	I2	PN302	G3	R338	E7	SW302	B6
C338	H1	PN401	J7	R339	E7	SW303	B6
C339	H1	Q301	G4	R340	E7	SW304	B5
C443	K8	Q302	H4	R341	E7	SW305	B5
C444	K9	Q357	A5	R343	D2	SW306	B4
C445	J9	Q358	E8	R353	D3	SW307	B2
C446	J9	Q359	E8	R354	D3	SW308	B1
C447	J9	Q360	E8	R355	D3	SW309	B1
C448	J8	Q404	I8	R356	H1	SW310	K2
C449	K8	Q405	I8	R357	C3	SW311	K2
C450	J8	R1312	B6	R358	C3	SW312	B9
C482	K9	R1313	B6	R366	A5	SW313	B8
C483	K8	R1314	B5	R371	D4	SW314	C9
C484	I9	R1315	B5	R372	C3	SW315	D8
C485	K9	R1316	B4	R373	C3	SW316	E9
C486	K8	R1317	A2	R374	C3	SW317	F9
C981	L8	R1318	A2	R375	C3	SW318	F8
C999	L3	R1319	B1	R377	D4	SW319	G9
CN301	F7	R1320	J1	R378	D4	SW320	H9
CN401	L3	R1321	J2	R379	D5	SW321	H8
CN809	L5	R1322	J2	R380	D5	SW322	G8
D301	I6	R1323	B9	R381	D5	SW323	H8
D302	I6	R1324	B8	R382	D5	SW324	F7
D303	H6	R1325	D9	R383	D4	SW325	F8
D304	H6	R1326	D9	R384	K5	SW326	D8
D305	H6	R1327	E9	R386	K5	SW327	D7
D306	H6	R1328	F9	R387	K4	VR301	K5
D307	H6	R1329	G9	R388	K4	VR302	C8
D308	H6	R1330	H9	R389	K4	VR304	L2
D309	G6	R1331	H9	R390	K4	X301	G5
D310	G6	R1332	H8	R391	K4	X302	G4
D311	G6	R1333	H8	R392	K4	ZD302	B6
D312	G6	R1334	H7	R393	K4		



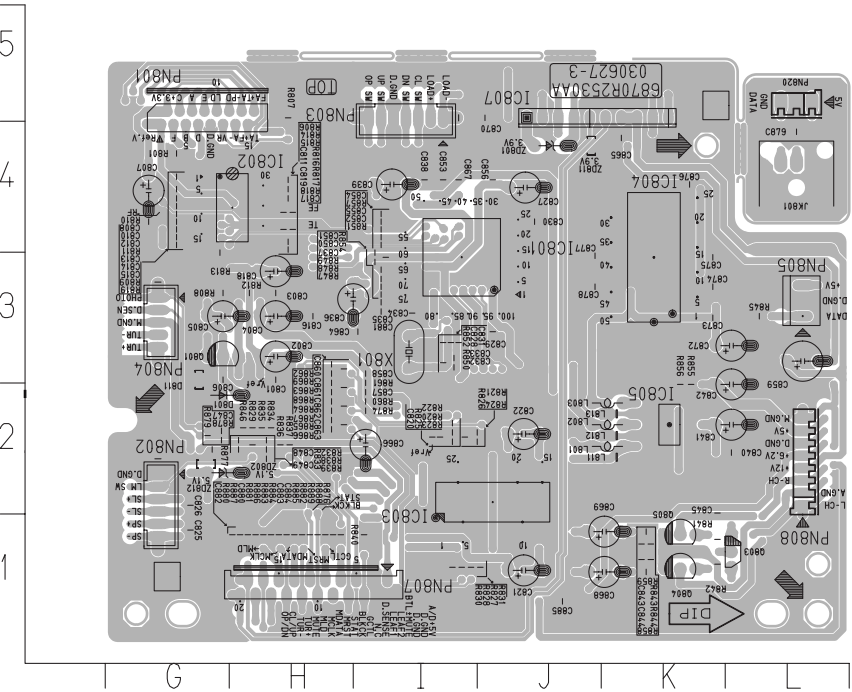
• FRONT P.C. BOARD (SOLDER SIDE)



**2-65**



• CD MAIN P.C. BOARD (COMPONENT SIDE)



C801	H3	C866	I2	R821	J2	R888	H1	TP917	J4
C802	H3	C867	I4	R822	I2	R889	H1	TP918	K4
C803	H3	C868	K1	R823	I2	TP803	G4	TP919	J4
C804	H3	C869	K1	R824	J2	TP808	H4	TP920	K4
C805	G3	C870	J5	R825	I2	TP822	G3	TP921	K4
C806	G3	C872	L3	R826	I2	TP823	H3	TP922	L3
C807	G4	C873	K3	R827	I1	TP824	G4	TP923	L3
C808	G4	C874	K3	R828	I1	TP825	G4	TP924	L4
C810	G4	C875	K3	R829	H2	TP826	G4	TP925	L4
C811	H4	C876	K4	R830	I1	TP827	G4	TP926	L4
C812	G4	C877	J3	R831	J1	TP828	G4	TP927	K4
C813	G4	C878	J3	R832	H2	TP829	G4	TP928	K4
C814	G4	C879	L4	R833	H2	TP830	H2	TP929	K4
C815	G4	C880	H1	R834	H2	TP831	H2	TP930	K4
C816	H3	C881	I3	R835	H2	TP832	H1	TP931	J3
C817	H4	C882	H1	R836	H2	TP833	H2	TP933	K4
C818	H3	C883	H1	R837	H2	TP836	H1	TP934	J4
C819	H4	C884	H1	R838	H2	TP837	G4	TP935	J4
C820	I2	C885	J1	R839	H2	TP838	G3	TP936	J4
C821	J1	D801	G2	R840	I1	TP839	H4	TP937	I4
C822	J2	D811	G3	R841	K1	TP847	H4	TP938	I4
C825	G1	IC801	I3	R842	K1	TP848	H4	TP939	J4
C826	G2	IC802	H4	R843	K1	TP849	I2	TP940	I4
C827	J7	IC803	J2	R844	K1	TP850	H3	TP941	I4
C828	I3	IC804	K3	R845	L3	TP851	I3	TP942	I4
C829	J3	IC805	K2	R846	H2	TP852	H4	TP943	I4
C830	J4	IC807	J5	R847	I3	TP853	H4	TP944	I4
C831	I3	L801	K2	R848	I3	TP854	G3	TP945	I4
C832	I3	L802	K2	R849	I3	TP855	G3	TP946	I3
C833	I3	L803	K2	R850	I3	TP856	G3	TP948	J1
C834	I3	L811	K2	R851	I4	TP857	G3	TP950	J1
C835	I3	L812	K2	R852	I3	TP858	G3	TP951	I4
C836	I3	L813	K2	R854	I3	TP859	G4	TP952	I3
C837	I3	PN801	G4	R855	K2	TP860	J2	TP953	I3
C838	I4	PN802	G2	R856	K2	TP861	I2	TP954	I3
C839	I4	PN803	I5	R857	I4	TP862	H2	TP955	K1
C840	L2	PN804	G3	R858	K1	TP863	H2	TP957	K1
C841	L2	PN805	L3	R859	K1	TP864	I2	TP958	I3
C842	L2	PN807	I1	R860	I2	TP865	I2	TP959	I3
C843	K1	PN808	L2	R861	I2	TP866	I2	TP960	J3
C844	K1	PN820	L5	R862	H3	TP867	I2	TP961	J3
C845	K2	Q801	G3	R863	H2	TP868	J2	TP962	K3
C847	G2	Q803	I1	R864	H2	TP869	J3	TP963	J3
C848	H2	Q804	K1	R865	H2	TP870	I1	TP964	J3
C849	H2	Q805	I1	R866	H2	TP871	I1	TP965	K3
C850	I3	R867	H2	R867	H2	TP872	I1	TP966	J3
C851	I3	R868	H3	TP873	H1	TP874	I1	TP967	J3
C852	I4	R867	H5	R869	H3	TP885	K1	TP968	K3
C853	I4	R808	G3	R874	I2	TP886	K1	TP969	J3
C854	I4	R809	G4	R876	H1	TP887	K1	TP970	K3
C855	I4	R810	G4	R877	G2	TP905	G4	TP971	J3
C856	J4	R811	G4	R878	G2	TP907	L3	TP972	I3
C857	I2	R812	H3	R879	G2	TP908	K3	TP977	G2
C858	I3	R813	G3	R880	H1	TP909	J3	TP978	H4
C859	L3	R814	H4	R881	H1	TP910	J3	TP979	H4
C860	H3	R815	H4	R882	H1	TP911	J3	X801	I3
C861	H2	R816	H4	R883	H1	TP912	J3	Z801	J4
C862	H2	R817	H4	R884	H1	TP913	K4	Z802	G2
C863	H2	R818	H4	R885	H1	TP914	J4	Z811	J4
C864	I3	R819	G4	R886	H1	TP915	L4	Z812	G2
C865	K4	R820	I2	R887	H1	TP916	K4		



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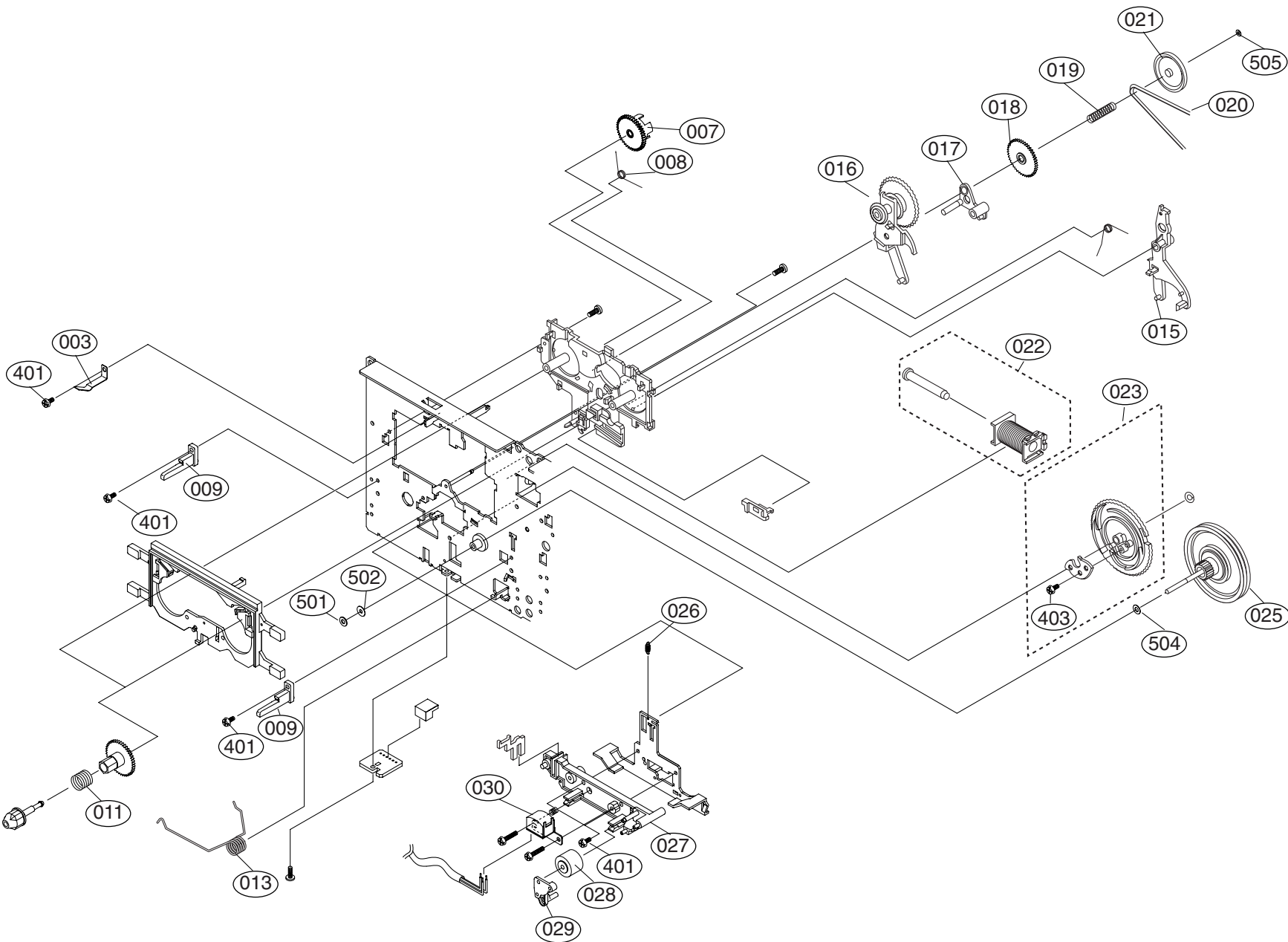
MEMO

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## CABINET AND MAIN FRAME SECTION

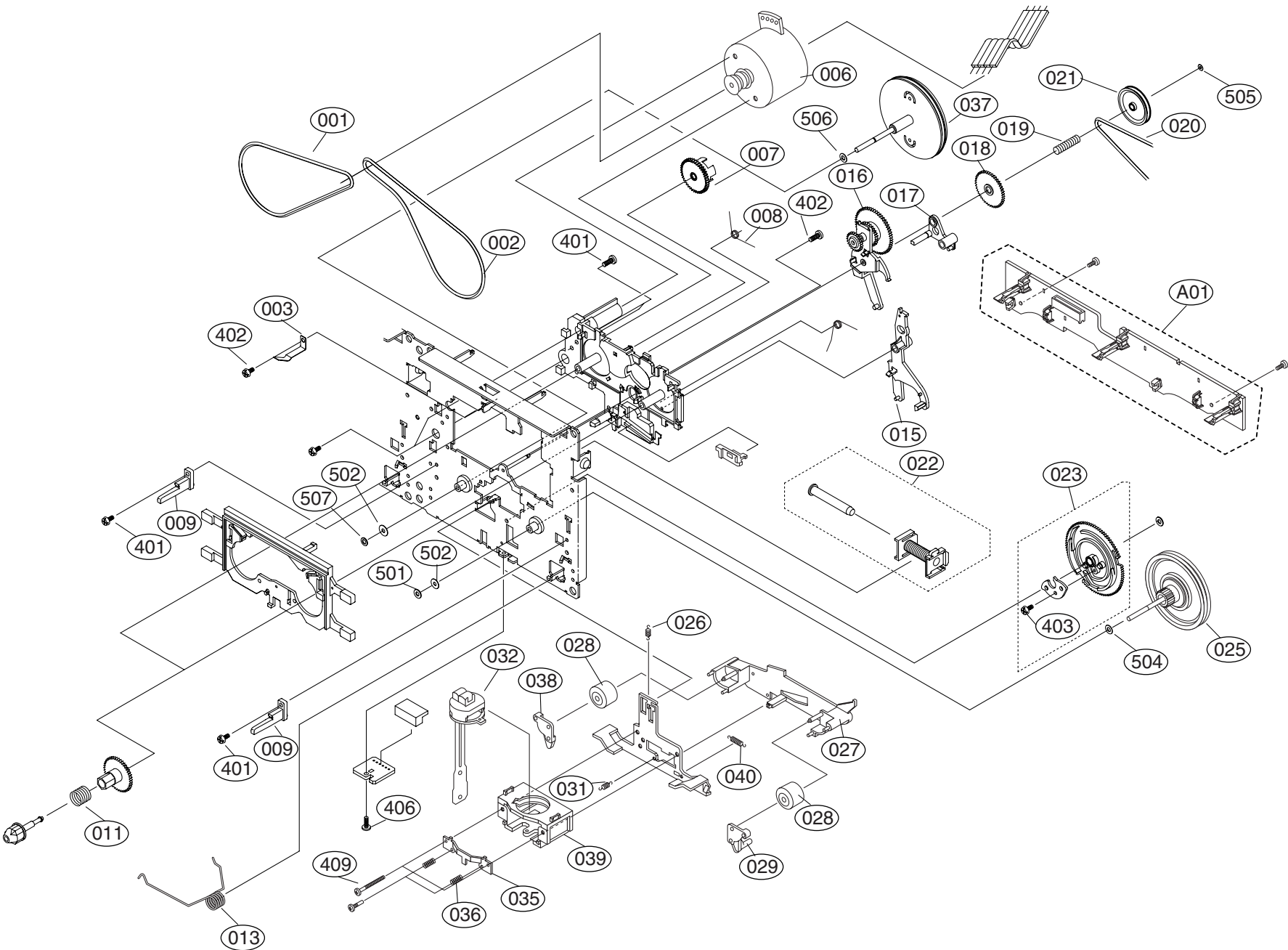


• TAPE DECK MECHANISM (A/R & A/S : LEFT A/S DECK)



LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION
A00	6720AG0002C	DECK,AUDIO	CWM42FR47 TOKYO PIGEON L-DOUBL
003	6768R-PP03A	DECK MECHANISM PARTS	33-160-4309 PIGEON PRESS CASSE
007	6768R-GP03B	DECK MECHANISM PARTS	50-222-4578 PIGEON GEAR IDLER
008	6768R-SP01F	DECK MECHANISM PARTS	01-082-4598 PIGEON SPRING CWL4
009	6768R-MP01C	DECK MECHANISM PARTS	50-219-4014 PIGEON MOLD CWL44
011	6768R-SP01A	DECK MECHANISM PARTS	01-081-4601 PIGEON SPRING CWL4
013	6768R-SP03A	DECK MECHANISM PARTS	01-082-4686 PIGEON SPRING CRM4
015	6768R-AP01A	DECK MECHANISM PARTS	50-268-3016 PIGEON ARM CWL44
016	6768R-GP01H	DECK MECHANISM PARTS	50-093-4503 PIGEON GEAR CRL442
017	6768R-AP01C	DECK MECHANISM PARTS	50-239-4072 PIGEON ARM CWL44
018	6768R-GP01J	DECK MECHANISM PARTS	50-222-4428 PIGEON GEAR CRL442
019	6768R-SP01P	DECK MECHANISM PARTS	01-081-4678 PIGEON SPRING CRL4
020	6768R-BP01C	DECK MECHANISM PARTS	02-083-4188 PIGEON BELT/FELT C
021	6768R-LP01C	DECK MECHANISM PARTS	50-223-4429 PIGEON PULLEY/FLYW
022	6768R-VP03A	DECK MECHANISM PARTS	50-093-4748 PIGEON SOLENOID AS
023	6768R-GP03A	DECK MECHANISM PARTS	50-093-4810 PIGEON GEAR ASSY C
025	6768R-JP03B	DECK MECHANISM PARTS	50-093-31009 PIGEON PULLEY/FLY
026	6768R-SP01D	DECK MECHANISM PARTS	01-080-4609 PIGEON SPRING CWL4
027	6768R-DP01A	DECK MECHANISM PARTS	50-259-3342 PIGEON LEVER CWL44
028	6768R-RP01A	DECK MECHANISM PARTS	22-027-41054 PIGEON ROLLER CWL
029	6768R-MP01A	DECK MECHANISM PARTS	50-219-4033 PIGEON MOLD CWL44
030	6768R-EP03C	DECK MECHANISM PARTS	T21V0P PIGEON HEAD CWM42FF30
401	6768R-CP01B	DECK MECHANISM PARTS	GSE20A2005 PIGEON SCREW CWL44
403	6768R-CP01D	DECK MECHANISM PARTS	GSL10A1704 PIGEON SCREW CWL44
501	6768R-WP03A	DECK MECHANISM PARTS	GWN19S035040 PIGEON WASHER CRM
502	6768R-WP03B	DECK MECHANISM PARTS	03-000-4532 PIGEON WASHER CRM4
504	6768R-WP01D	DECK MECHANISM PARTS	GWP21X045020 PIGEON WASHER CWL
505	6768R-WP01E	DECK MECHANISM PARTS	GWP12X030040S PIGEON WASHER CW

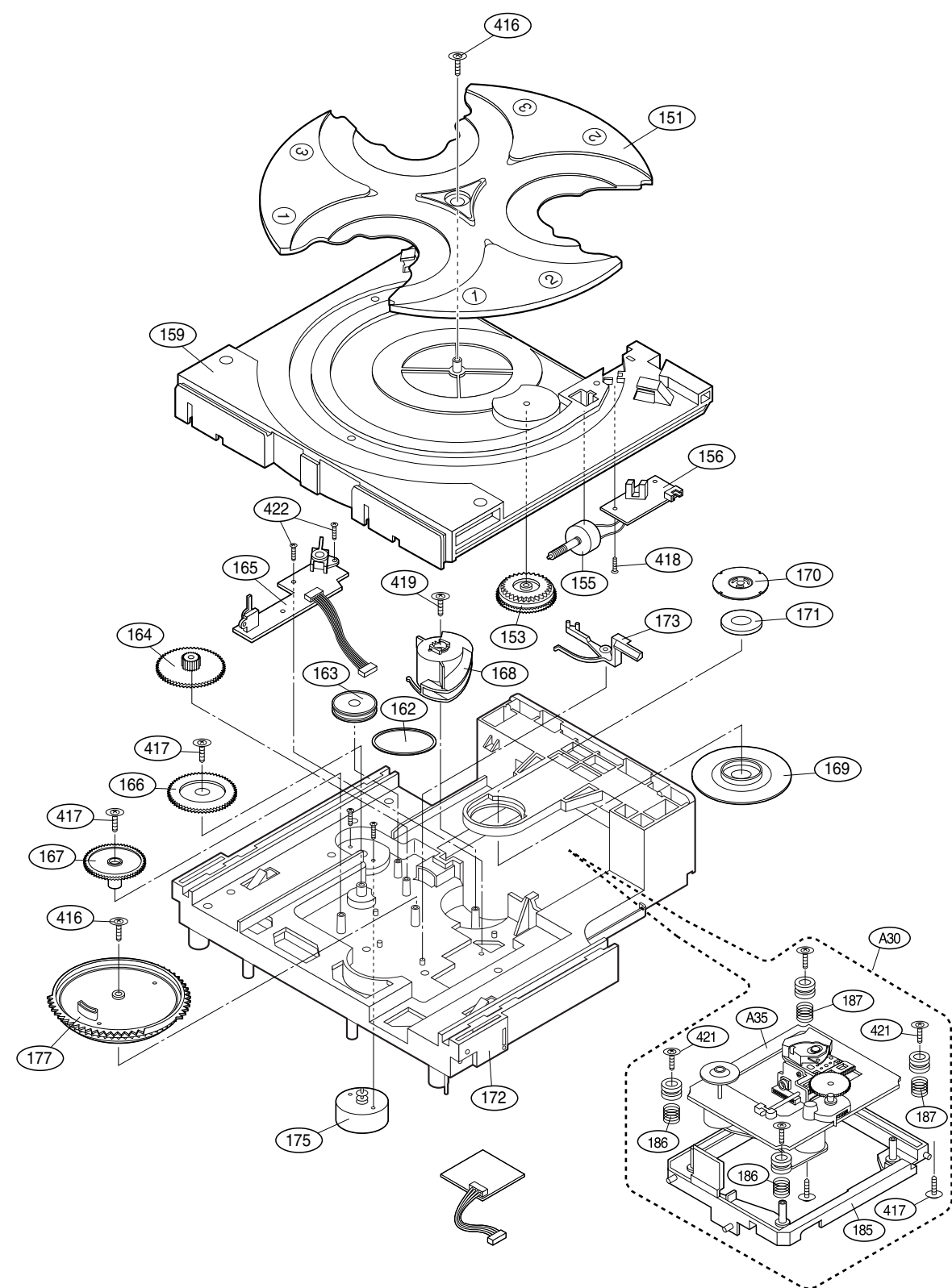
• TAPE DECK MECHANISM (A/R & A/S : RIGHT A/R DECK)



LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION
A00	6720AG0002C	DECK,AUDIO	CWM42FR47 TOKYO PIGEON L-DOUBL
A01	6768R-UP03D	DECK MECHANISM PARTS	50-093-4895 PIGEON PWB UNIT CW
001	6768R-BP03D	DECK MECHANISM PARTS	02-083-4254 PIGEON BELT/FELT C
002	6768R-BP03E	DECK MECHANISM PARTS	02-083-4256 PIGEON BELT/FELT C
003	6768R-PP03A	DECK MECHANISM PARTS	33-160-4309 PIGEON PRESS CASSE
006	6768R-QP03C	DECK MECHANISM PARTS	50-093-4880 PIGEON MOTOR(ASSY)
007	6768R-GP03B	DECK MECHANISM PARTS	50-222-4578 PIGEON GEAR IDLER
008	6768R-SP01F	DECK MECHANISM PARTS	01-082-4598 PIGEON SPRING CWL4
009	6768R-MP01C	DECK MECHANISM PARTS	50-219-4014 PIGEON MOLD CWL44
011	6768R-SP01A	DECK MECHANISM PARTS	01-081-4601 PIGEON SPRING CWL4
013	6768R-SP03A	DECK MECHANISM PARTS	01-082-4686 PIGEON SPRING CRM4
015	6768R-AP01A	DECK MECHANISM PARTS	50-268-3016 PIGEON ARM CWL44
016	6768R-GP01H	DECK MECHANISM PARTS	50-093-4503 PIGEON GEAR CRL442
017	6768R-AP01C	DECK MECHANISM PARTS	50-239-4072 PIGEON ARM CWL44
018	6768R-GP01J	DECK MECHANISM PARTS	50-222-4428 PIGEON GEAR CRL442
019	6768R-SP01P	DECK MECHANISM PARTS	01-081-4678 PIGEON SPRING CRL4
020	6768R-BP01C	DECK MECHANISM PARTS	02-083-4188 PIGEON BELT/FELT C
021	6768R-LP01C	DECK MECHANISM PARTS	50-223-4429 PIGEON PULLEY/FLYW
022	6768R-VP03A	DECK MECHANISM PARTS	50-093-4748 PIGEON SOLENOID AS
023	6768R-GP03A	DECK MECHANISM PARTS	50-093-4810 PIGEON GEAR ASSY C
025	6768R-JP03B	DECK MECHANISM PARTS	50-093-31009 PIGEON PULLEY/FLY
026	6768R-SP01D	DECK MECHANISM PARTS	01-080-4609 PIGEON SPRING CWL4
027	6768R-DP01A	DECK MECHANISM PARTS	50-259-3342 PIGEON LEVER CWL44
028	6768R-RP01A	DECK MECHANISM PARTS	22-027-41054 PIGEON ROLLER CWL
029	6768R-MP01A	DECK MECHANISM PARTS	50-219-4033 PIGEON MOLD CWL44
031	6768R-SP04A	DECK MECHANISM PARTS	01-082-4731 PIGEON SPRING
032	6768R-EP04A	DECK MECHANISM PARTS	50-093-41007 PIGEON HEAD ASSY
035	6768R-PP04A	DECK MECHANISM PARTS	50-119-4915 PIGEON PRESS
036	6768R-SP04B	DECK MECHANISM PARTS	01-081-4730 PIGEON SPRING
037	6768R-JP03A	DECK MECHANISM PARTS	50-093-4674 PIGEON PULLEY/FLYW
038	6768R-MP01D	DECK MECHANISM PARTS	50-219-4034 PIGEON MOLD CWL44
039	6768R-MP02A	DECK MECHANISM PARTS	50-219-3900 PIGEON MOLD
040	6768R-SP01M	DECK MECHANISM PARTS	01-080-4607 PIGEON SPRING CWL4
401	6768R-CP01B	DECK MECHANISM PARTS	GSE20A2005 PIGEON SCREW CWL44
402	6768R-CP01A	DECK MECHANISM PARTS	GSE10A2003 PIGEON SCREW CWL44
403	6768R-CP01D	DECK MECHANISM PARTS	GSL10A1704 PIGEON SCREW CWL44
406	6768R-CP01G	DECK MECHANISM PARTS	GSE20A2004 PIGEON SCREW CWL44
409	6768R-CP02A	DECK MECHANISM PARTS	GSD10A2016 PIGEON SCREW
501	6768R-WP03A	DECK MECHANISM PARTS	GWN19S035040 PIGEON WASHER CRM
502	6768R-WP03B	DECK MECHANISM PARTS	03-000-4532 PIGEON WASHER CRM4
504	6768R-WP01D	DECK MECHANISM PARTS	GWP21X045020 PIGEON WASHER CWL
505	6768R-WP01E	DECK MECHANISM PARTS	GWP12X030040S PIGEON WASHER CW
506	6768R-WP01H	DECK MECHANISM PARTS	GWP23X040020 PIGEON WASHER CWL
507	6768R-WP01F	DECK MECHANISM PARTS	GWN21X040040 PIGEON WASHER CWL



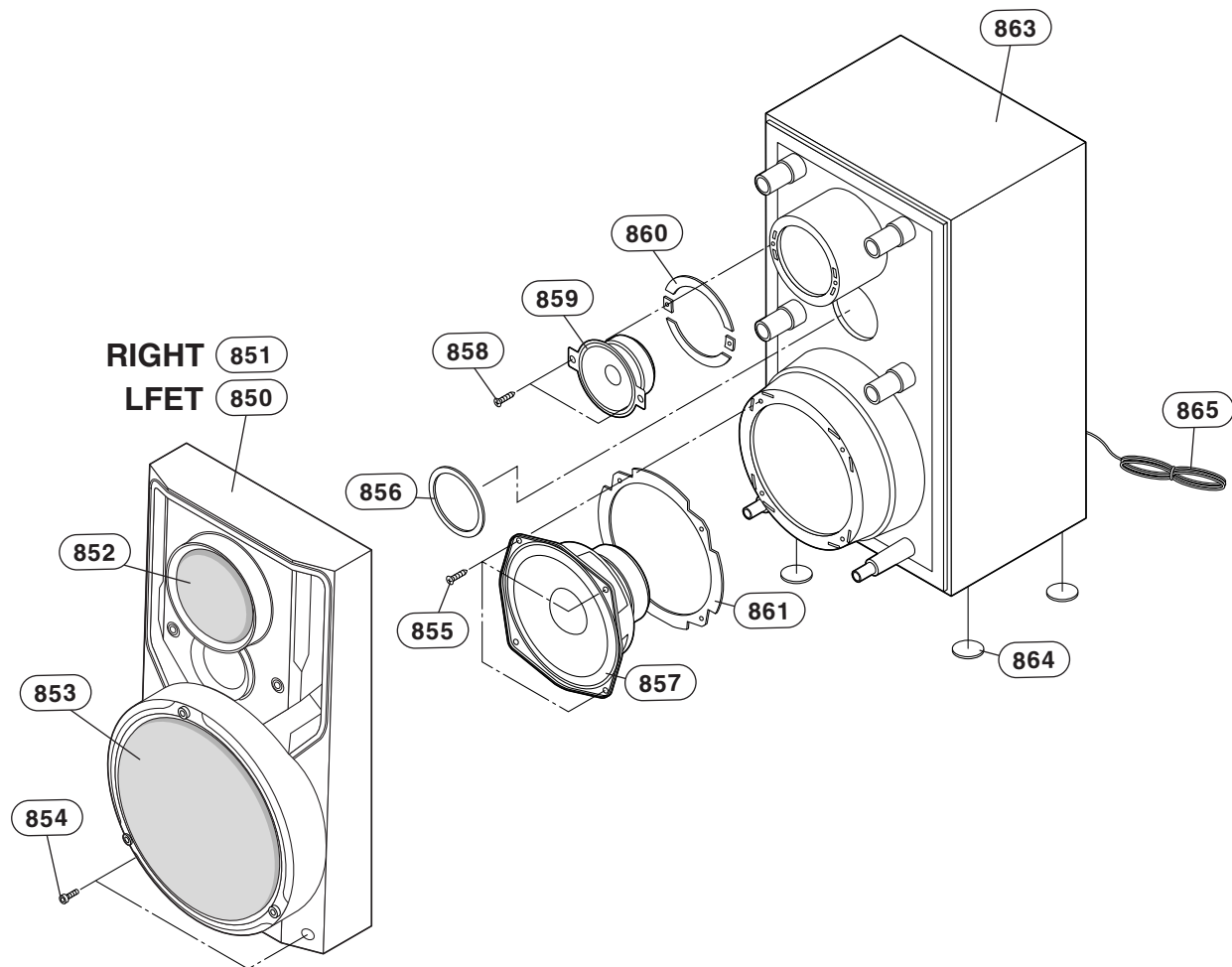
• CD MECHANISM



LOCA.NO.	PART NO	DESCRIPTION	SPECIFICATION
A26	4405RCE008C	MECHANISM ASSEMBLY	CDM-H1503 3 CD CHANGER
A30	3041RB0002C	BASE ASSEMBLY	PU(SP/NG DAMPER)
A35	6717RCA001A	PICK UP ASSY	KSM-213VSCM SONY FRONT LOADING
151	3390RB0002A	TRAY	DISC(CDM-H1503)
153	4470RB0005A	GEAR	TRAY (CDM-H1503)
155	4681RBA001A	MOTOR ASSEMBLY	TRAY (CDM-H1503)
156	6871RF9211A	PWB(PCB) ASSEMBLY,FRONT	1503 T/D SENSOR
159	3390RB0001A	TRAY	LOADING(CDM-H1503)
162	4400SB0001A	BELT	MAIN(CDM-H1303)
163	4470SB0003A	GEAR	PULLEY (CDM-H1303)
164	4470RB0003A	GEAR	LOADING (CDM-H1503)
165	6871RZ7036A	PWB(PCB) ASSEMBLY,OTHERS	CDM-H1503 UP/DW/OP/CL
166	4470RB0006A	GEAR	PU UP (CDM-H1503)
167	4470RB0007A	GEAR	PU DOWN (CDM-H1503)
168	4470RB0002A	GEAR	CAM (CDM-H1503)
169	4860SB0001A	CLAMP	DISC(CDM-H1303)
170	3550SB0001A	COVER	MAGNET(CDM-H1303)
171	524-012AAAA	COVER	CLAMP MAGNET (030X018X5T)
172	3040RB0005A	BASE	MAIN (CDM-H1503)
173	4510RB0001A	LEVER	S/W CLOSE
175	4680SBP001A	MOTOR(MECH)	OTHER . . .
177	4470RB0001A	GEAR	MAIN (CDM-H1503)
184	4900RB0001A	DAMPER	RUBBER 3CD CHANGER
185	3040SB0003A	BASE	PU(CDM-H1303)
186	4970RB0001A	SPRING	COIL 3 CD CHANGER
187	4970RB0001B	SPRING	COIL 50 3CD CHANGER
416	88H-0004	CD MECHA PARTS	3X12X12FNM
417	88H-0002	CD MECHA PARTS	3X9X12FZMY
418	353-025BAAA	SCREW	#NAME?
419	88H-0003	CD MECHA PARTS	3X12X10FZMY
420	353S353F	SCREW	#NAME?
421	6756SBX001A	CD MECHANISM PARTS	SCREW 2.6X10X10XFZMY CDM-H813
422	353-028H	SCREW	#NAME?

## SECTION 4. SPEAKER SECTION

□ MODEL: LMS-M340, LMS-M342



# MEMO

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.